E Read To the Read

# المراجعة رقورا)







# 1 (Assessments on Units

# Assessment on Unit



### First: Choose the correct answer:

**(b)** If 
$$574 = 41 \times 14$$
, then  $580 \div 41 = 14$ , and the remainder is

$$06 \times (7 + 5) =$$

$$((6 \times 7) + (6 \times 5) \odot 6 \times 7 + 5 \odot 6 \times 7 \times 5 \odot (6 + 7) \times (6 + 5))$$

$$(2 \times 8) + (2 \times 3) = \dots$$

$$(2 \times 8 \times 3 \odot 2 + (8 \times 3) \odot 2 \times (8 + 3) \odot 2 \times 8 \times 2 \times 3)$$

$$01\frac{3}{4} + 2\frac{1}{2} = \dots$$

$$(4\frac{1}{4} \odot 3\frac{1}{4} \odot 3\frac{4}{6} \odot 4)$$

### Second: Complete the following:

(a) If 
$$1,050 \div 12 = 87$$
, and the remainder is  $6$ , then  $12 \times 87 = 100$ 

**b** If 
$$351 \div 27 = 13$$
, then  $13 \times 27 = ...$ 

- All prime numbers are odd numbers, except \_\_\_\_\_\_ is an even number.
- is the smallest prime number.
- Any two numbers are relatively prime numbers if their greatest common factor is
- The least common multiple of any two prime numbers is ...

$$\frac{1}{5} + \frac{1}{5} + \frac{1}{2}$$

Third: Answer the following:

Find the result:

$$\bigcirc$$
 2.592  $\div$  24 =



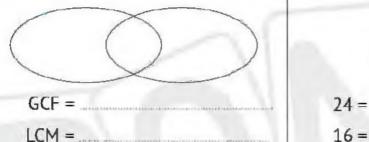
$$\frac{3}{7} \frac{1}{4} - 3 \frac{3}{5} =$$

A compound consists of 840 housing units, each building within this compound consists of 15 housing units.

How many buildings in this compound?

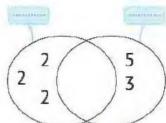
### Final Revision

3 Find the GCF and LCM using Venn diagram for numbers 24 and 16:





- 4 Complete the following using a Venn diagram:
  - The two numbers represented in the Venn diagram
     are \_\_\_\_\_ and \_\_\_\_.
  - The common prime factors of the two numbers are



- The GCF for the two numbers is ...
- The LCM for the two numbers is \_\_\_\_\_\_
- O Are the two numbers relatively prime numbers? (Yes O No)
- Solution in Example 18 red roses and 12 white roses. He wants to distribute them in equal bouquets, so that each bouquet contains the same number of roses of each color. What is the largest number of bouquets Adel can make and how many red and white roses are in each bouquet?



**6** Hany has 25 pounds. He bought a piece of cake for  $9\frac{1}{2}$  pounds and a chocolate drink for  $5\frac{1}{4}$  pounds. How much money is left with Hany?

# ssessment on Unit

#### First: Choose the correct answer:

6 –7 is to the right of \_\_\_\_\_ on the number line.

$$(-8 \odot 8 \odot -6 \odot 6)$$

is neither a positive number nor a negative number.

The largest non-negative integer is \_\_\_\_\_\_.

$$(-1 \odot 1 \odot 100 \odot 0)$$

6 ( −5.7 ) is a/an

The absolute value of "0" is a/an

1 The additive inverse of  $-\frac{2}{3}$  is  $(1\frac{1}{2} \circ -\frac{3}{1} \circ \frac{3}{2} \circ \frac{2}{3})$ 

$$(1\frac{1}{2} \odot - \frac{3}{1} \odot \frac{3}{2} \odot \frac{2}{3})$$

9 -0.3 in the form  $\frac{a}{b}$  is  $(-\frac{3}{10} \circ -\frac{1}{3} \circ -\frac{3}{1} \circ \frac{10}{3})$ 

$$\left(-\frac{3}{10} \odot - \frac{1}{3} \odot - \frac{3}{1} \odot \frac{10}{3}\right)$$

1 The rational number represented on the corresponding number line is

 $(-3.4 \odot -4.3 \odot 3.4 \odot 4.3)$ 

$$(10 \odot 0 \odot -1 \odot 1)$$

### Second: Complete the following:

- The integer that expresses (The temperature is 7 below zero) is
- The next number to "−1" is
- The additive inverse of 11.5 is

### Final Revision

- The smallest positive integer is
- The number and its opposite have the \_\_\_\_\_\_ distance from zero, but in two \_\_\_\_\_ directions on a number line.
- All natural numbers are \_\_\_\_\_ numbers and \_\_\_\_\_ numbers.
- 1 If | a | = 8, then a = ..... or .........
- 1 If | 5.6 | = n, then n = ..........

### Third:

Tomplete using ( < , =, or > ):

**a** −3.8 −1.8

**(b** | -2.5 | | -3.6 |

 $| \frac{2}{5} | = | -0.4 |$ 

 $\frac{3}{8} - \frac{7}{8} = \left| -3\frac{5}{8} \right|$ 

2 Arrange the following numbers in a descending order:

$$0.55$$
 ,  $-\frac{3}{5}$  ,  $\left|-\frac{1}{2}\right|$  ,  $-\frac{1}{4}$  ,  $\left|0.8\right|$ 

## Accumulative Assessments

## on Units 1-2

## Assessment

First:	Channa	the correct	anawar
FIISL.	Choose	the correct	answer:

(a) If  $6,688 = 19 \times 352$ , then  $6,694 \div 19 = 352$ , and the remainder is

(14 @ 41 @ 6 @ 16)

- ⑤ The greatest common multiple of 9 and 8 is \_\_\_\_\_\_. (9 ◎ 8 ◎ 1 ◎ 72 )
- The prime factors of 20 are

(2 x 10 o 5 x 4 o 2 x 2 x 5 o 1 x 20)

All negative numbers are \_\_\_\_\_zero.

(< 0 = 0 > 0 ≥)

**⊕** −25 −12

(< 0 = 0 > 0 ≥)

### Second: Complete the following:

- (a)  $6 \times (7 + 5) = (2.2.2.2 \times 2.2.2.2) + (2.2.2.2 \times 2.2.2.2)$
- 6 .....comes just before -1.
- is the opposite number of "10".
- The integer that expresses (The value of the loss is 20 LE) is

### Third: Answer the following:

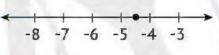
- If the total price of 25 books is 2,825 pounds, then what is the price of one book?
- Ohmed wants to plant 45 sunflower plants and 81 corn plants in his garden. If he put the same number of plants in each row, what is the greatest number of rows can he make?

GCF =

# Assessment 2

#### First: Choose the correct answer:

The rational number represented on the corresponding number line is \_\_\_\_\_



$$(4\frac{2}{2} \odot 5\frac{2}{3} \odot -4\frac{2}{3} \odot -5\frac{2}{3})$$

- 12 and \_\_\_\_\_ are relatively prime numbers.
  - ( 16 💿 15 💿 35 💿 20)

The opposite of 6 >

 $(-5 \odot 5 \odot -7 \odot 7)$ 

 $\frac{3}{5}$   $-\frac{5}{7}$ 

- $(> \bigcirc = \bigcirc < \bigcirc >)$
- $\bigcirc$  4 is to the right of \_\_\_\_\_ on the number line. (-5  $\bigcirc$  5  $\bigcirc$  -3  $\bigcirc$  3)

### Second: Complete the following:

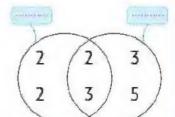
- The additive inverse of \_\_\_\_\_ is itself.

(In the decimal form)

- $(2 \times 8) + (2 \times 6)$
- is a number whose prime factors are 3, 2, 7.
- (a)  $3\frac{1}{5} + \dots = 8\frac{1}{2}$

### Third: Answer the following:

- Find the results:
  - $\frac{3}{8} + 4 \frac{1}{6} =$
  - $\frac{1}{2} + \frac{1}{2} \frac{3}{4} =$
- Complete the following using the opposite Venn diagram.



- The two numbers are \_\_\_\_\_ and \_\_\_\_\_.
- The GCF is \_\_\_\_\_\_ The LCM is \_\_\_\_\_

# SEESSMENT on Unit

#### First: Choose the correct answer:

- The algebraic term "5ab" is from factors.  $(1 \odot 2 \odot 3 \odot 4)$
- The number of terms that makes up the algebraic expression

"3 
$$x y + 2 x - 5$$
" is \_\_\_\_\_\_ term. (2 \overline{1}{12} 3 \overline{1}{12} 4 \overline{1}{12} 5)

- The absolute term in "3m + 2" is (2 or 3 or m or 3 m)
- **1** Subtracting the number 3 from twice the number  $y = \frac{1}{2}$

$$(3-2y \odot 2 (y-3) \odot 3y-2 \odot 2y-3)$$

Samah is now 25 years old. How old was she h years ago?

$$(5 \times 5 \times 5 = ... (5 \times 3 \odot 5^{3} \odot 3^{5} \odot 5 + 3)$$

- 1 If the price of one book is 15 pounds, what is the price of b number of books?  $(15 b \odot 15 - b \odot b - 15 \odot b + 15)$
- 1 The value of  $(12 x^3) \div 2$  if x = 2 is \_\_\_\_\_\_. (8 10 10 10 2 16)
- ① The order that is used to find the value of 2 + 3 ( $m^2 5$ ) if m = 3 is ...... ( putting exponents in their simplest form, subtraction, multiplication, addition o addition, exponents, subtraction, multiplication
- oputting the exponents in the simplest form, addition, subtraction, multiplication
- omultiplication, addition, exponents in simplest form, subtraction )

### Second: Complete the following:

- If the sum of two integers is S and one of them is 10, then the other
- Like terms for "3n + 3 + 2n" are
- Twice of subtracting 5 from the number w = \_\_\_\_\_

### Final Revision

The verbal form for	"3	<i>x</i> –	5	" İs	
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- 100 km. How many liters does the car need to travel a distance of 600 km?
- ① The value of " $4 \times (y^3 7)$ " If y = 3 is \_\_\_\_\_\_.
- 05 = 1

04 = 4

### Third: Answer the following:

- 1 Moataz saved "n" pounds per day for 9 days, then he got 20 pounds from his father.
  - Write an algebraic expression that expresses the amount that Moataz has now:
  - O Complete using the preceding algebraic expression:
    - 1 The number of terms of an algebraic expression is

    - 3 The constants are \_\_\_\_\_.
- 2 Find the value of each of the following two algebraic expressions using the numbers shown, then indicate if these expressions are equivalent or not:

	2x+1	5 x - 4	Equal or Not?
If $x = 5$			
If $\mathcal{X} = 3$			

From the previous table, we find that the two algebraic expressions are (Equivalent or Not).

## Accumulative Assessments

## on Units 1-3

# Assessment

### First: Choose the correct answer:

a A number that, if divided by 9, the quotient is 15, and the remainder is

3, is \_\_\_\_\_ (135 💿 128 💿 138 💿 27 )

- 6 is the opposite of -12 (12 ⊕ 12 ⊕ 1 ⊕ 2)
- © The algebraic term " $\frac{3}{4}$  x" has a factor. (1 © 2 © 3 © 4)
- (i) If we subtract 9 from the number x, the result is

 $(x+9 \odot x-9 \odot 9-x \odot 9x)$ 

### Second: Complete the following:

- (a) If 2,000  $\pm$  51 39 and the remainder is 11, then 51  $\times$  39 -
- The absolute term in the algebraic expression "5b + 3.2" is
- A number whose prime factors are 2, 3, 5 is
- Salah saves Z pounds per day. How much does he save in a week?
- 6 In 4 is called the base and 2 is called the exponent.

### Third: Answer the following:

- (i) Find the value of " $4a 15 \div 3$ " [ If  $a \times 2.5$  ]
- Arrange the following numbers in a descending order:

$$0.8 \ , \ \frac{1}{5} \ , \ \frac{1}{2} \ , \ \frac{3}{4} \ , \ | \ 0.25 |$$

The order:

Bassem runs one kilometer in 15 minutes.
Write a mathematical expression that expresses the number of kilometers that Bassem runs in "t" minutes.

# Assessment 2

### First: Choose the correct answer:

- If 36 x 28 = 1,008, then 1,008 ÷ 28 =
- 1 In "-8 a" the algebraic factor is
- 1 3.7 1 = .....
- (1) 2 × 2 × 2 = ......
- (3)  $2^3 + 2^3 = \dots$

### . (12 o 34 o 408 o 36) (a o 8 o 8a o -8)

$$(2^3 \odot 3^2 \odot 2 \times 3 \odot 2 + 3)$$

### $(2^6 \odot 4^3 \odot 2^4 \odot 4^6)$

### Second: Complete the following:

- (a) ................. is the smallest prime number.
- **1** The smallest positive integer is
- The number of terms in the algebraic expression 5y 25 z is
- **1** If the price of a pen is 8 LE then the price of x pens is
- (a) The verbal form for the algebraic expression 3b + 4 is

### Third: Answer the following:

1 Follow the order of performing operations to find:

$$(3)4^2 + (2^4 - 1) \times 2$$

- = ....
- =

- **(b)**  $(2^3 + 6) \div (3^2 2)$ 
  - = . . . . . . . . . . . .
  - -
- 2) Wael collected 3  $\frac{3}{4}$  kilograms of dates and gave 2  $\frac{1}{5}$  kilograms to his friend.

How many kilograms are left with Wael?

# sessment of Unit



#### First: Choose the correct answer:

(a) If a + 3 = 7, then a = 3

(7 @ 3 @ 10 @ 4)

**(b)** If b = 6, then b = 2.

(4 @ 8 @ 2 @ 3)

 $\bigcirc$  If 5 x = 40, then x =

(35 @ 45 @ 8 @ 200)

(1) If y = 6, then  $\frac{y}{y} = 2$ .

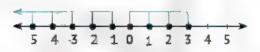
- $(3 \odot 8 \odot 12 \odot 4)$
- The inequality that represents all values "greater than 4" is
  - $(x > 4 \odot x < 4 \odot x \leq 4 \odot x \geq 4)$
- The inequality that represents all values "less than or equal to -2" is

$$(x > -2 \odot x < -2 \odot x \leq -2 \odot x \geq -2)$$

- The inequality that represents all negative numbers are
  - $(x > 0 \odot x < 0 \odot x \le 0 \odot x \ge 0)$
- high which of the following is a solution to the inequality x < -6?

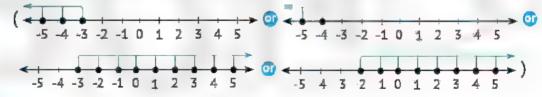
$$(5 \odot -5 \odot -7 \odot 7)$$

The inequality represented by the corresponding graph is .....



$$(x > 4 \odot x < 4 \odot x \le 4 \odot x \ge 4)$$

1 The graph expressing the inequality "x < -3" is



### Second: Complete all of the following:

- (a) If x + 7 = 9, then x = 0. (b) If 4 m = 20, then m =
- **1** If b = 12, then b = 8. **1** If d = 3, then x = 18.

### Final Revision

- ⑤ If k − 6, then 2 − ..... + k.
- 1 The equation that represents the corresponding model is
- The inequality that represents all values "less than -6" is
- The inequality that represents all values "greater than or equal to 3" is
- 1 The inequality tht represents all positive integers are
- ① The similarities between the graphs of the two algebraic expressions x = 9 and  $x \ge 9$  are

### Third: Answer the following:

Find the value of the variable in each of the following equations:

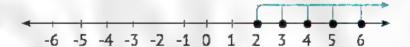
(a) x - 5 = 4

**b** 4x = 24

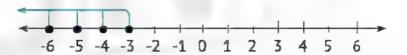
= .. . . . . . . . . . . .

2. Use the following number line to write inequalities:

**a** 



0.



## Accumulative Assessments

## on Units 1-4

# Assessment

### First: Choose the correct answer:

is a factor of all numbers.

- (0 0 1 0 2 0 3)
- The number -3 is located to the right of the number on the number line.
  - (-4 @ 4 @ -2 @ 2)
- In the algebraic term "-5 a b " the coefficient is

**1** If 5x = 15, then 3x = 15

- (3 @ 12 @ 9 @ 15)
- (a) Which of the following is a solution to the inequality "x > -2"?

$$(-5 \odot -3 \odot -2 \odot 0)$$

### Second: Complete the following:

- a .....is the smallest prime number.
- Ahmed is now "y" years old, how old was he 3 years ago?
- **(i)** If b = 6, then b + ... = 8.
- The inequality that represents all values greater than or equal to -8 is

### Third: Answer the following:

Write the equation that represents each of the following models, then find the value of x:









Equation:

X = .....

Equation:

 $\mathcal{X} = .$ 

# Assessment 2

### First: Choose the correct answer:

- ① The least common multiple of any two prime numbers is .
  ( the greater number ② 1 ③ their sum ⑤ their product )
- The integer that expresses (The depth of a well of 8 meters) is  $(-8 \odot 8 \odot \frac{1}{8} \odot \frac{1}{8})$
- The number of terms that make up the algebraic expression "5 + 2 a b" is \_\_\_\_\_\_.
  (2 @ 3 @ 4 @ 5)
- old If Basim is "x" years old now, how old will he be after 5 years?

 $(x-5 \odot x+5 \odot 5+x \odot 5x)$ 

If "a + 3 = 7", then 2 a =

(10 @ 4 @ 8 @ 20)

### Second: Complete the following:

- The LCM of the two relatively prime numbers is
- $( ) 8 \times ( ... + ... ) = ( ... \times 9 ) + ( ... \times 2 )$
- G The number "-3" is the opposite of the number
- **1** The absolute term in the algebraic expression 7x + 1 is
- 1 The inequality that represents all values less than -6 is

### Third: Answer the following:

- A school has 604 boys and 521 girls, it is intended to divide the boys and girls equally into 25 classes in the school.
  How many students will be in each class?
- Solve each of the following equations:

(a) x - 4 - 8

3y = 24

u u mar i u · · ·

# Assessment Unit 5

### First: Choose the correct answer:

In the equation "a = 3 b", the independent variable is

**b** In the equation "m + 5 - r", the dependent variable is

( m @ 5 @ r @ 5m)

If the independent variable is the number of studying hours, then the dependent variable is the . (exam result on school uniform color

on means of access to school on number of class students )

If the dependent variable is the number of training hours, then the independent variable is . (the number of days you go to the club

on the distance between the club and the house

on the color of your training clothes on the height of the house )

The equation that expresses the relationship "subtract from 6" is

 $(y = x - 6 \odot y = 6 - x \odot y - x = 6 \odot y = 6x)$ 

The equation that expresses the relationship "add 5 then multiply by 2"

is  $.(y = 2x + 5 \odot y = 2(x + 5) \odot y = 5x + 2 \odot y = (x + 2) \times 5))$ 

**9** The relation that represents the equation " $y = (x - 8) \div 3$ " is

(divide by 8, then subtract 3 op subtract 8, then divide by 3

- o divide by 3, then subtract 8 o subtract 3, then divide by 8)
- ① If y = 2x + 3, x = 2.5 then y = . (5 ② 11 ③ 8 ③ 5.5)
- ① If y = 2(x + 4), x = 5, then y = (11 © 29 © 18 © 14)
- ① If y = 5x 8, x = 8, then y = . (32 ② 2 ③ 30 ③ 12)

### Final Revision

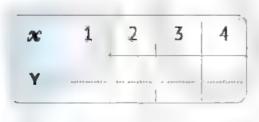
### Second: Complete the following:

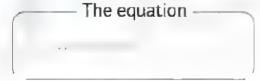
- 1 In the equation "8 a = b" the independent variable is
- If the number of cars in the garage depends on the size of the garage, then:
  - 1 the independent variable is
  - 2) the dependent variable is
- Of the independent variable is what Ahmed saves every day and the dependent variable is what he saves in one week, then depends on
- (1) If the rule is "add 2.4", then
  - 1, the equation is .
- 2 if x = 4, then y =
- (a) If the rule is "divide by 4" then
  - 1 the equation is ,... ...
- 2 if x 16, then y -
- 1 If the equation is  $y = (15 + x) \div 4$ , then :
- 2 if x = 5, then y =

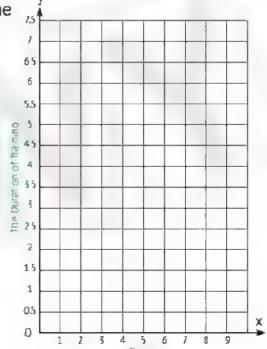
### Third: Sameh trains for 6 hours divided into 4 days equally:

Complete the following table, where the variable "x" represents the number of days, and the variable "y" represents the

duration of training in hours. Write an equation that shows the relationship between the variables "x" and "y", and then represent it graphically.







# Accumulative Assessments

## on Units 1-5

# Assessment

### First: Choose the correct answer:

15 The GCF of 4 and 15 is

(0 1 0 4 0 5)

The greatest non-negative integer is

- (1 0 0 0 -1 0 -2)
- The integer that expresses: "Hossam moved three steps back" is

$$(-3 \odot 3 \odot x + 3 \odot x - 5)$$

• If the side length of a square is s cm, then the perimeter of the square =

$$(s + 4 \odot s - 4 \odot 4s \odot s \div 4)$$

(a) If  $3^x = 27$ , then the value of x = 27

### Second: Complete the following:

- $\bigcirc 6^2 \div 3^2 \times 2 =$
- (b) If 15 = 8 + a, then 3a =
- **6** If y = 2x + 4, x = 3 then y =
- The inequality that represents all values "to the left of the number 2" on the number line is
  .
- **1** The relationship that expresses the equation " $y = 5 \times$ " is

### Third: Answer the following:

- Diaa saves 150 pounds every month, so if the amount he saves in (x) months is (y) pounds, then:
  - The equation that represents this situation is
  - 1 The independent variable is
  - The dependent variable is
  - What Diaa saves in a year is
- 2. The owner of a juice shop owns 5,950 paper cups. If he uses them within 17 days equally, how many cups did he use every day?

# Assessment 2

### First: Choose the correct answer:

are relatively prime numbers.

(6 0 15 0 20 0 12)

♠ An integer between 2 and –2 is

 $(1 \odot 3 \odot 3 \odot 4)$ 

The number m plus 18 and the result divided by 3 =

 $(m + \frac{18}{3} \odot \frac{m}{3} + 18 \odot 3 \div (m + 18) \odot (m + 18) \div 3)$  $(4 \times 4 \times 4 \odot 3 \times 3 \times 3 \times 3 \odot 3 \times 4 \odot 3 + 4)$ 

(i)  $3^4 =$ (i) If y = 27, then y = 9

(18 @ 3 @ 27 @ 9)

### Second: Complete the following:

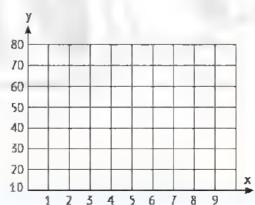
- Prime numbers less than 10 are
- O Integers between -3 and 2 are
- Opposite numbers on a number line have absolute values ( same different )
- ② The value of the expression " $3 \times (y^2 5)$ " when y = 3 is

### Third: Answer the following:

Omar manufactures hats, producing 10 hats per day, the following table represents the number of working days (x) and the number of hats produced (y). Represent it graphically.



The equation -





### First: Choose the correct answer:

```
Statistical question
                 (it results in a lot of different answers on has one answer
                   o its answer is yes or no o its answer is one number)
From the categorical data
                        (birthdates @ ages @ weights @ favorite colors)
From numerical data
               (preferred colors  blood types  places of birth  ages )

    All of the following data are categorical, except for

                          (favorite foods or jobs or weight or eye colors)
All of the following data are numerical, except
                          (temperatures of lengths of names of weights)
The horizontal axis includes numerical periods in a
                 ( dot plot of bar graph of double bar graph of histogram )
( dot plot 💿 bar graph 💿 double bar graph 🚳 histogram )
🚺 In a
                 there is a graduated scale for the vertical axis.
                                         ( dot plot only of bar graph only
                     o both bar graph and histogram histogram only )
The maximum value of the values 8, 6, 8, 7, 2, 6, 3 is
                                                        (2 \odot 7 \odot 8 \odot 6)
\bigcirc The upper quartile of the values 9, 3, 0, 4, 8, 1, 7 is
                                                       (9 \oplus 4 \oplus 1 \oplus 8)
```

### Final Revision

### Second: Complete the following:

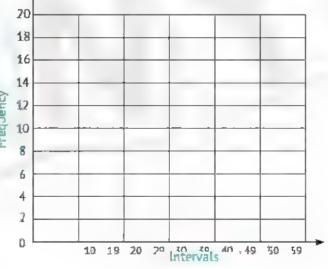
- Types of questions are questions and questions.
- **(b)** Types of statistical data are data and data.
- The monthly income of an institution's employees 's from the data.
- The number of letters of the first name of each student in the class, is from the \_\_\_\_\_ data
- ② The best graph to represent the number of pupils between the ages of 12-15 years is
- The best graph to represent the number of studying hours for a student on Saturday is

  .
- The median of the values "9, 2, 8, 6" is
- The minimum value of the values 2,9,1,1,8,5 is
- The most appropriate graph to represent peaks and gaps and aggregate data is

### Third: Answer the following:

1 Draw the histogram of the following data, which represent the scores of 50 students.

Interval Grades	Frequency Number of Students		
10 – 19	4		
20 – 29	12		
30 – 39	18		
40 – 49	9		
50 – 59	8		



2 Draw the box plot for each of the following groups of values (3,8,7,2,10,12,9,2,10,9).

The order:

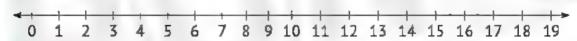
Minimum Value:

Maximum Value:

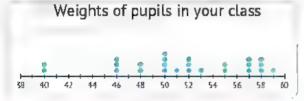
Median:

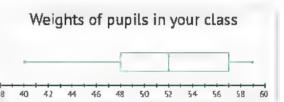
Upper Quartile: ......

Lower Quartile:



3 The dots plot and the box plot below show the weights of a number of pupils in your class?





a Answer the following, explaining the best graph(s) that helps you in the answer.

	Question	Answer	Graph		
	Question		Dot Plot	Box Plot	
1	How many students weigh 57 kg?				
(2)	What is the median value?				
3	What is the height of the lightest pupil zone?				
1	What is the beight of the beautist students?				

- 4 What is the height of the heaviet students?
- 5 How many students weigh more than 54 cm?
- (b) Write two questions that can be answered using: Dot plot





Box plot



2

### Accumulative Assessments

## on Units 1-6

# Assessment

### First: Choose the correct answer:

The GCF of relatively prime numbers is

(0 on 1 on their sum on their product)

- is neither a positive nor a negative number. (0 of 1 of 1 of 10)
- All integers are \_\_\_\_\_ numbers.

(counting on natural on even on rational)

The number of terms that make up the algebraic expression

"5x + 3 y + 2" is ... ........

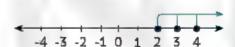
(2 @ 3 @ 5 @ 6)

The inequality that represents all values less than or equal to -7 is

$$(x > -7 \odot x < -7 \odot x \leq -7 \odot x \geq -7)$$

### Second: Complete the following:

- $\bullet$  to the power  $= 6^4$
- If a meal costs 65 pounds, what is the price of "b" meals of the same type
- $\bigcirc$  If 8 m = 16, then 2 m + 3 =
- The inequality that represents positive integers is

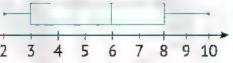


### Third: Answer the following:

T Use the opposite box plot to find:

Maximum Value: . ........





Minimum Value:

Median:

Upper Quartile:

- Cower Quartile:
- 2 Find the value of each of the following:
  - (a)  $d^3 + 7$  If [d = 3]
- **b** 37 4e If [e = 2]

# Assessment 2

### First: Choose the correct answer:

is a prime number.

(55 @ 11 @ 22 @ 33)

 $6 - \frac{7}{4} > \dots$ 

- $(\frac{7}{4} \odot -1 \frac{3}{4} \odot \frac{8}{4} \odot -\frac{8}{4})$
- © The number of terms of algebraic expression "8 + 3 x y" is

The expression representing:

"half the difference between the number a and 7" is

$$(\frac{1}{2}a-7 \odot \frac{1}{2}a+7 \odot \frac{1}{2}(a-7) \odot \frac{1}{2}(a+7))$$

**3** 5 0 0 0 5

( < ◎ = ◎ > ◎ ≥ )

### Second: Complete the following:

- ② Do you like the red color? is a question.
- The median of the values: 5, 7, 8, 3, 6 is
- is the only prime even number.
- The next number to 0 is
- ② Like terms in the algebraic expression "3 b + 5 a + 2 b + 5" are

### Third: Answer the following:

- a A travel agency wants to divide 3,556 passengers using microbuses, each one has 14 seats. How many microbuses can the travel agency use?
- Oraw the box plot for the following groups of values:

$$(5,8,3,2,8,6,4)$$
.

# Assessment unit



### First: Choose the correct answer:

- ② If the mean of a set of values is 7 and the number of these values is 9, then the sum of the values is . (16 ③ 63 ④ 2 ④ 9)
- ighthereof is set of values is 8 and the sum of these values is 48, then the number of these values is equal to  $(6 \odot 40 \odot 56 \odot 8)$
- is not affected by outliers in the data set.

(The mean The mode The median all of them)

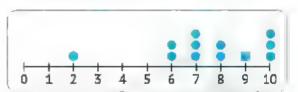
1 The range cannot be found using

( dot plot of histogram of box chart of all of them )

is one of the measures of variability ( spread ).

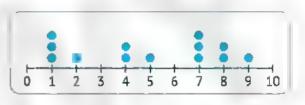
(The mean The median The mode The range)

The correct description that applies to the opposite graph is the mean



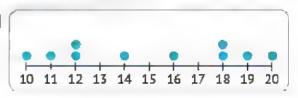
(increases @ decreases @ remains the same @ The range)

The beast choice as a measure of central tendency for the values represented in the opposite graph is



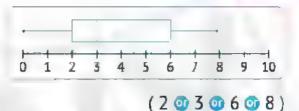
(the mean on the median on the mode on both the mean and the median)

 The mean of the values represented by opposite dot plot graph is

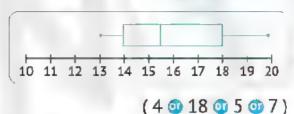


(15 @ 20 @ 14 @ 16)

The median of the values. represented by opposite box plot graph is



1 The range of values represented on the opposite box plot is



### Second: Answer the following:

- 1 The mean of the values: 9, 7, 3, 1, 8, 2 is
- **1** The mode of the values 5, 3, 8, 7, 3, 5 is
- The range for the values: 15, 5, 17, 3, 12 is
- The outliers in the set of values: 5, 18, 3, 4, 7, 6 are
- are affected by the presence of outliers. 0

### Third: Answer the following:

- 1 Using the corresponding graph (answer).
  - a The Mean:
  - The Median:
  - The Mode:
  - The Range:
- Outliers:
- 2 The following table represents the temperatures recorded in a city in a week:



Using the values shown table, find:

- a The Mean:
- The Median:
- The Mode:
- The Range:

Outliers:

22 23 24 25 26 27 28 29 30

### Accumulative Assessments

## on Units 1-7

# Assessment

### First: Choose the correct answer:

a The GCF of 9 and 8 is

(9 0 8 0 1 0 72)

$$01\frac{3}{4}+2\frac{1}{2}=$$

$$(4\frac{1}{4} \odot 3\frac{1}{4} \odot 3\frac{4}{6} \odot 4)$$

 $\bigcirc$  The rational number 2  $\frac{3}{4}$  is between the two whole numbers

$$(-1, -2 \odot -2, -3 \odot 1, 2 \odot 2, 3)$$

$$(2x+7 \odot 2(x+7) \odot 27 + x \odot 2(2x+7))$$

e may uses separate columns to represent the data.

( Dot plots 🚭 Bar graph 🚭 Double bar graph 🍑 Histogram )

### Second: Complete the following:

- The smallest two-digit prime number is
- The additive inverse of 5.9 is
- The algebraic factor in the term "2.5 x" is
- 1" The inequality that represents all values "greater than -1"

, dependent variable is

### Third: Answer the following:

- Use the following Box Plot to Complete:
  - Maximum Value: \_\_\_\_\_
- 8 9 10 11 12 13 14 15 16 17 18 19 21 22
- Minimum Value:

Median: .....

- @ Range:
- Use the following Dot Plot to Complete:
  - @ Maximum Value: .....
  - Minimum Value:
  - Median: . .......
  - @ Meant ...... .. ......
- 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
- Range:

# Assessment 2

### First: Choose the correct answer:

 $(2 \times 8) + (2 \times 3) =$ 

$$(2 \times 8 \times 3 \odot 2 + (8 \times 3) \odot 2 \times (8 + 3) \odot 2 \times 8 \times 2 \times 3)$$

5 is not a/an

Which of the following values is a solution to the inequality

are categorical data.

### Second: Complete the following:

- The prime number has only \_\_\_\_\_ factor(s).
- The integer that expresses: "the temperature is 15 below zero" is
- $\bigcirc$  If 5 = |m|, then m = 0 or
- The number of terms in the algebraic expression:

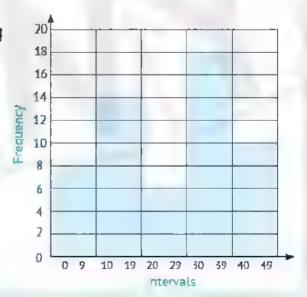
"
$$3x + 1y - 25$$
" is

Categorical statistical data, written in the form of

### Third: Answer the following:

1 Complete the following table using the opposite histogram:

Intervals	Frequency		
0 – 9	white dates has been as a		
10 – 19	n ()-aw wakipapuntotor(		
20 – 29	menty for every med very ev. 1 f. g.		
30 – 39	D-04-04-0- D-6 -55-77-77-0		
40 – 49	und hid dress the heart had hid in		





### First: Choose the correct answer:

```
(27 15 405 175)
1 If 15 \times 27 = 405, then 405 \div 15 =
2 If 2,054 = 26 \times 79, then 2,060 \div 79 = 26, and the remainder is
                                                        (14 @ 41 @ 6 @ 16)
3 .....÷ 11 = 14 R3
                                                 (158 @ 157 @ 156 @ 154)
              is a factor of all numbers.
                                                            (0 \odot 1 \odot 2 \odot 3)
5 The prime number
                        . ( has no factors 🕶 has only one factor
                                     on has two factors on has three factors )
6 The prime factors of 12 are
                                      (3 \times 4 \odot 2 \times 2 \times 3 \odot 2 \times 6 \odot 1 \times 12)
7 If the prime factors of a number are 2 \times 2 \times 2, then the number is
                                                         (8 0 4 0 6 0 222)
8 The LCM of any two prime numbers is
                  (the smallest number of 1 of their sum of their product)
9 The LCM of of a relatively prime number is
                  (the smallest number 1 1 their sum 1 their product)
                                                            (0 \odot 1 \odot 4 \odot 5)
10 The GCF of 4 and 15 is
11 6 and ____ are relatively prime numbers.
                                                        (4 @ 15 @ 35 @ 20)
              is a multiple of all numbers.
                                                            (0 \oplus 1 \oplus 2 \oplus 3)
12
                                                       (55 @ 11 @ 22 @ 33)
              is a prime number.
13
14 0, 6, 8, 2 are ... numbers.
                                         ( even @ odd @ prime @ counting )
15 The prime factors of 20 are
                                     (2 \times 10 \odot 5 \times 4 \odot 2 \times 2 \times 5 \odot 1 \times 20)
```

```
16 If the prime factors of a number are 2 \times 3 \times 3, then the number is
                                                         (18 @ 9 @ 11 @ 233)
17 The greatest common factor of any two prime numbers is
                                        (0 on 1 on their sum on their product)
18 The least common multiple of two prime numbers is
                       (smallest number of 1 their sum of their product)
19 The least common multiple of a relatively prime number is
                       (greatest number @ 1 @ their sum @ their product)
20 The least common multiple of 8 and 5 is
                                                           (8 0 5 0 13 0 40)
21 The greatest common factor of 6 and 25 is
                                                              (1 \odot 2 \odot 4 \odot 5)
22 8 and ..... are relatively prime numbers.
                                                          (4 @ 24 @ 35 @ 20)
23 12 and ...... are relatively prime numbers.
                                                          (8 @ 25 @ 36 @ 18)
24 The greatest common factor of a number whose prime factors are 2
    and 5, and a number whose factors are 3 and 7 is
                                                          (0 0 10 0 1 0 210)
                                                              (0 @ 1 @ 2 @ 3)
               is a factor of all numbers.
25
26.6 \times (7+5) =
         ((6 \times 7) + (6 \times 5) \odot 6 \times 7 + 5 \odot 6 \times 7 \times 5 \odot (6 + 7) \times (6 + 5))
27(4\times9)+(4\times3)-
                    (4 \times 9 \times 3 \odot (4 \times 9) + 3 \odot 4 + (9 \times 3) \odot 4 \times (9 + 3))
                                                     (4\frac{1}{4} \odot 3\frac{1}{4} \odot 3\frac{4}{6} \odot 4)
28 1 \frac{3}{4} + 2 \frac{1}{4} = ....
29 -3 is located to the right of
                                             on the number line.
                                                          (-4 \odot 4 \odot -2 \odot 2)
30 The number that comes just before is -1. (-2 \odot 2 \odot 0 \odot 1)
```

```
31 -9 > .....
                                                               \{-15 \odot 8 \odot -8 \odot 10\}
32 The opposite of -12 is .....
                                                                 \{-12 \odot 12 \odot 1 \odot 2\}
            is neither a positive nor a negative number. (0 \odot 1 \odot -1 \odot 10)
                                                                  (-4 \odot 4 \odot -6 \odot 6)
34 The opposite of 5 >
35 The largest negative integer is
                                                                ( 1 on 1 on 100 on 0)
36 The largest non-positive integer is
                                                               (-1 \odot 1 \odot -100 \odot 0)
37 All negative numbers
                                                                      ( < 00 = 00 > 00 \leq )
                                           zero.
38 All positive numbers
                                                                      (< \bigcirc = \bigcirc > \bigcirc \le)
                                           zero.
39 The integer that expresses (the depth of a well of 5 meters) is . . .
                                                               \{-5 \odot 5 \odot 10 \odot 10\}
40 An integer between 2 and -2 is
                                                                 (-1 \odot -3 \odot 3 \odot -4)
                                                               (-10 \odot -8 \odot 10 \odot 8)
41 The number just after -9 is
                                                                      (< \bigcirc = \bigcirc > \bigcirc \le)
42 -25
                -17
43 6 < .....
                                                                 (-8 \odot 8 \odot -9 \odot -7)
44 -2.5 is a/an
      (counting number of natural number of integer of rational number)
45 5 is not a/an
           (counting number of natural number of integer of even number)
46 0 is a/an ... .. number.
                                (counting or natural or negative integer or odd)
                                                             (\frac{3}{4} \odot - \frac{4}{3} \odot \frac{4}{3} \odot 1 \frac{1}{3})
47 The opposite of -\frac{3}{4} is
                                                           \left(-\frac{1}{6} \odot - \frac{6}{1} \odot \frac{1}{6} \odot - \frac{6}{1}\right)
48 -6 in the form \frac{a}{b} is
                                                            ( < ◎ = ◎ > ◎ ≤ )
49 Additive inverse of a number \frac{3}{5}
                                                            (\frac{1}{4} \odot -1 \frac{3}{4} \odot \frac{8}{4} \odot -\frac{8}{4})
50 - 1/A > NAME AND ALL .
51 - 2 is a/an
 (counting number on natural number on negative integer on odd number)
```

52 All integers are ...... numbers.

( counting on natural on even on rational )

53 The additive inverse of -5 is

$$(\frac{1}{5} \odot - \frac{1}{5} \odot - 5 \odot 5)$$

54 Rational number –  $2\frac{3}{5}$  is between

$$(-1, -2 \odot -2, -3 \odot 1, 2 \odot 2, 3)$$

55 -7 is to the right of \_\_\_\_ on the number line.

$$(-8 \odot 8 \odot -6 \odot 6)$$

57 The absolute value of "zero" is

58 The absolute value of 2.7 is

59 The larger the absolute value, the

number zero.

( closer to on farther from on equal to )

60 The algebraic term " $\frac{1}{5}$ " has

61 In the algebraic term "- 3 \ y" the coefficient is

$$(y \odot x \odot 3 \odot -3)$$

62 The algebraic factor in the algebraic term " $\frac{3}{8}$  \" is

$$(x \odot 8 \odot 3 \odot \frac{3}{8})$$

63 The number of terms of "/ a - 2 b" is

64 Like terms for the algebraic expression "5 + 5 y + 2 y" are

65 Like terms for the algebraic expression "2 + 3 b + 2 a" are

$$(2,3 b \odot 2,2 a \odot 3 b + 2 a \odot none)$$

66 In the algebraic expression "3 y + 9" the absolute term is

67 If the height of the school building is "m" meters and the height of the tree adjacent to this building is 10 meters less than its height, then meters. ( m + 10  $\odot$  m - 10  $\odot$  10 m  $\odot$   $\frac{m}{10}$  ) height of the tree is

68 Ahmed and Tamer have 60 pounds, if what Ahmed has is "v" pounds, then what Tamer has is ..... pounds  $(60 + x \odot 60 - x \odot 60x \odot 60 \div x)$ 69 If we subtract 5 from the number "\", the result is  $(x + 5 \odot x - 5 \odot 5 - x \odot 5 x)$ 70 The algebraic term is "5 ab" formed from factors.  $(1 \odot 2 \odot 3 \odot 4)$ 71 Ziyad saved up "\" pounds and his father gave him 10 pounds so that he would be with him  $(x-10 \odot x + 10 \odot 10 x \odot 10 - x)$ 72 The algebraic expression representing (subtracting 3 from twice the  $(x-3 \odot 2x-3 \odot 3x+2 \odot 5x)$ number "\")is 73 The algebraic expression representing (half the difference between the number "a" and 7) is  $(\frac{1}{2}a - 7 \odot \frac{1}{2}a + 7 \odot \frac{1}{2}(a - 7) \odot \frac{1}{2}(a + 7))$ 74 If Basim is "n" years old now, how old will he be after 7 years?  $(n-7 \odot n + 7 \odot 7 + n \odot 7n)$ 75 Which of the following operations expresses the mathematical expression "double the number plus 4"?  $(+, - \odot X, - \odot X, + \odot X, \div)$ 76 A square of side length "s" cm has a perimeter of  $(s + 4 \odot s + 4 \odot s - 4 \odot 4s)$ 77 If the price of one book is 15 pounds, how much is the price of "b" number of books?  $(15 b \odot 15 - b \odot b - 15 \odot b + 15)$ 78 4<sup>2</sup> = .....  $(4 \times 2 \odot 4 \times 4 \odot 4 + 2 \odot 4 + 4)$ 79 30 =  $(3 \odot 0 \odot 1 \odot 3 \times 0)$ 80 1 = .....  $(1 \times 5 \odot 1 + 5 \odot 1 \odot 0)$  $(2^{5} \odot 5^{2} \odot 2 \times 5 \odot 2 + 5)$ 81  $2 \times 2 \times 2 \times 2 \times 2 =$ 

82 4 = 1 
$$(0 \odot 1 \odot 2 \odot 5)$$

83 
$$2^4$$
 ( <  $0 = 0 > 0 \le$  )

84 
$$7^0$$
  $0^7$   $(< 0 = 0 > 0 < )$ 

**85** 
$$5 \times 3 + 2^2 = \dots$$
 (35 **a** 19 **a** 51 **b** 17)

**86** 
$$3^2 + 3^2 + 3^2 = \dots$$
 ( $3^6 \odot 9^2 \odot 3^3 \odot 9^6$ )

87 If the price of one shirt is 120 Egyptian pounds, then the price of "m" number of shirts is .( 120 m of 120 + m of 120 + m of 120 - m )

88 If Hanan saves "d" pound daily for 5 days, then her father gives her 20 pounds, so the amount that Hanan has now is .

$$(5 + 20d \odot 20 - 5d \odot 5d + 20 \odot 5 \times (d + 20))$$

89 The value of the expression  $a^2 + 2 \times 3$ , If a = 3 is

**90** if 
$$a + 8 = 15$$
, then  $a = (7 \odot 15 \odot 8 \odot 23)$ 

91 If 
$$b = 6$$
, then  $b - \dots = 4$  (10 0 4 0 2 0 6)

**92** If 
$$5 \setminus = 40$$
, then  $1 = 0$ . (35 © 45 © 8 © 200)

93 If 
$$y = 16$$
, then  $\frac{y}{} = 2$ . (3 © 8 © 12 © 4)

94 The inequality that represents all values "greater than -1" is

$$(x > -1 \odot x < -1 \odot x \leq -1 \odot x \geq -1)$$

95 The inequality that represents all values to the left of 5 on the number line is  $(x > 5 \text{ or } x < 5 \text{ or } x \le 5 \text{ or } x \ge 5)$ 

96 The inequality that represents all values "less than or equal to -7" is

$$(x > -7 \odot x < -7 \odot x \le -7 \odot x \ge -7)$$

97 The graph of the inequalities " $\chi > 3$ " and " $\chi < 3$ " on the number line are similar in that . (3 doesn't belong to any of them

both include all values to the left of the number 3

there is a common point between them

@ each of them includes all the values to the right of the number 3)

- 98 The graph of the inequalities "1 < 4" and " $1 \le 4$ " on the number line are similar in that
  - (4 doesn't belong to any of them they include all values to the left of 4 there is "a" common point between them
    - each of them includes all the values to the right of the number 4)
- 99 Which of the following values is a solution to the inequality "\ < 9"?

100 Which of the following values is a solution to the inequality "\ ≥ 5"?

101 The inequality for which all negative numbers are

$$(x > 0 \odot x < 0 \odot x \le 0 \odot x \ge 0)$$

102 In "
$$u = 3 \div w$$
" the independent variable is . (  $w \odot u \odot 3 \odot \frac{w}{3}$  )

103 In "a = 5 d", the dependent variable is . (5 
$$\odot$$
 a  $\odot$  d  $\odot$  5d)

- 104 If the amount of fuel consumed by the car depends on the distance traveled, then the independent variable is the
  - (fuel amount o distance traveled traveled time temperature)
- 105 If the dependent variable is the student's score in the exam, then the independent variable is .

( the type of pen used in the solution 💇 the age of the student

- of the number of correct answers the number of questions in the exam )
- 106 The equation that expresses "subtract from 9" is

$$(y = x - 9 \odot y = 9 - x \odot y - x = 9 \odot y = 9x)$$

107 The equation that expresses "multiply by 2 and then add 5" is

$$(y = 5x + 2 \odot y = 2(x + 5) \odot y = 5(x + 2) \odot y = 2x + 5)$$

108 The relation that represents the equation " $y = \frac{1}{3} v$ " is

(divide by 3 
$$\odot$$
 multiply by 3  $\odot$  divide by  $\frac{1}{3}$   $\odot$  subtract  $\frac{1}{3}$ )

```
109 The relation that represents the equation "y = (y - 3) \div 2" is
               (divide by 2, then subtract 3 or subtract 3, then divide by 2
            o divide by 3, then subtract 2 o subtract 2, then divide by 3)
110 y = 6 + 4, If x = 3 then y =
                                                  (10 @ 22 @ 18 @ 67)
111 y = \frac{1}{4} + -2, If x = 8 then y =
                                                      (0 \odot 2 \odot 6 \odot 30)
112 Statistical question
            (results in a lot of different answers @ its answer is yes or no
                         has one answer o its answer is one number )
      ....are categorical data.
113
                    ( Dates of birth @ Ages @ Weights @ Favorite colors )
    are categorical data.
                        Numbers of students in each class @ Test scores
                  Numbers of family members  Favourite TV shows )
115 The horizontal axis includes numerical periods in
                ( dot plot of bar graph of double bar graph of histogram )
         .... does not have a vertical axis.
               ( Dot plot @ Bar graph @ Double bar graph @ Histogram )
              uses separate columns to represent the data.
117
                (Dot plot  Bar graph  Double bar graph  Histogram )
         has horizontal axis.
      (Bar graph 💿 Double bar graph 💿 Histogram 💿 All of the previous )
                                    ( columns are used to represent data
119 In the dot plot,
                                  o there is no need for a horizontal axis
                                  o each value is represented by a point
                                data is displayed grouped in intervals )
120 In the bar graph
                  ( each bar represents a number or one categorical data
             o it does not need a vertical axis the bars must touched 0
                    o each piece of information is represented by a dot )
```

```
121 In the histogram
                   (it does not need a vertical axis of the bars must touch
    o data is shown above the number line o all bars are evenly spaced )
122 In each of the bar graphs and histograms
       (bars are used to represent data of each bar represents an interval
opeach bar represents one number op The data is shown above the number line)
123 In the
                     there is a graduated scale for the vertical axis.
                                         (dot plots only or bar graph only
                   o histogram only o both of bar graph and histogram )
124 A
                may be used to display numerical data.
                ( dot plot of bar graph of histogram of all of the previous )
125 The best graph to represent the number of pupils whose height
     ranges from 150 - 160 cm is the
               ( dot plots of bar graph of histogram of all of the previous )
126 The best graph to represent the number of students absent on a
     Sunday is
               ( dot plots of bar graph of histogram of all of the previous )
127 A ...... has two axes, horizontal and vertical.
       (bar graph of double bar graph of histogram of all of the previous)
128 The bar graph
                              ( can display numerical and categorical data
                                        o can display only numerical data

 can display only categorical data )

129 The mean of the values 45, 15, 40, 70, 80 is
                                                    (40 @ 45 @ 50 @ 60)
130 If the mean of the values 12,15, 1,8 is 10 then the value of "\" is
                                                     (40 💿 5 💿 20 💿 10 )
131 If the sum of 8 values equals 48, then the mean of these values is
                                                     (40 @ 56 @ 24 @ 6)
```

132 If the sum of a set of values is 36, and the mean of these values is 6, then the number of these values is (6 of 42 of 30 of 216)

133 The median of the values: 4, 9, 7, 1, 1, 2 is (4 @ 2 @ 3 @ 24)

134 If the mean of Manal and Siham's ages is 7 years, and Manal's age is 8 years, then Siham's age is years. (6 © 7 © 8 © 15)

135 Values "5, 3, 2, 5, 2, 7" has

( no mode of one mode of two modes of three modes )

opposite graph is the mean ... 7 8 9 10

(increases of decreases of remains the same)

the centeral tendency in the opposite graph.

(The man a The modisp & The mode & Roth man and modisp)

(The mean The median The mode Both mean and median)

138 If the range of a set of values is 11 and the smallest value is 7, then the largest value is  $(4 \odot 18 \odot 77 \odot 70)$ 

139 All of the following are measures of the center, except

( mean @ median @ mode @ range )

140 The range cannot be found using

( dot plot of box plot of histogram of bar chart )

141 The rational number represented on the opposite number line is .

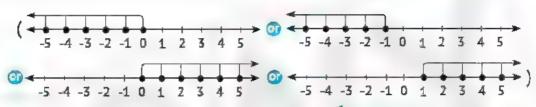
 $(4\frac{2}{3} \odot 5\frac{2}{3} \odot -4\frac{2}{3} \odot -5\frac{2}{3})$ 

142 The rational number represented on the opposite number line is .

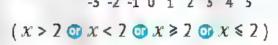
3 2 1 0 1 2 3

 $(0.5 \odot -0.5 \odot 1.5 \odot -1.5)$ 

143 The graph representing the equation "\ < 0" is



144 The inequality that represents the opposite model is



145 The equation that represents the opposite model is

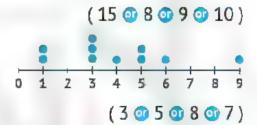


$$(x + 2 = 9 \odot 2 x = 9 \odot x - 2 = 9 \odot x + 2 = 9)$$

146 The mean of the values represented on the opposite dot plot is 0 1



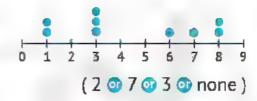
147 The median of the values represented on the opposite dot plot is



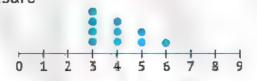
- 0 1 2 3 4 5 6 7 8 9 (8 © 7 © 10 © 5)
- on the opposite dot plot is ......
- 50 51 52 53 54 55
- on the opposite dot plot is ......

(5 @ 6 @ 5.5 @ 8)

151 The outliers of the values represented on the opposite dot plot is

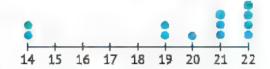


of the centeral tendency in the opposite graph.



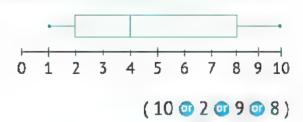
( Mean 💿 Mode 🐨 Median 🚳 Range )

153 The correct description that applies on the opposite graph is the mean

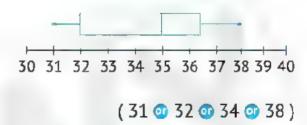


(increases of decreases of remains the same)

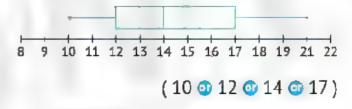
154 The range of the values represented on the opposite box plot is .



155 The median of the values represented on the opposite box plot is .



156 The lower quartile of the values represented on the opposite box plot is



#### Second: Complete the following:

- 1 If  $13 \times 48 = 624$ , then  $624 \div 13 =$
- 2 If  $976 = 61 \times 16$ , then  $985 \div 61 = 16$ , and the remainder
- 3 If 2,000  $\div$  51 = 39 and the remainder is 11, then 51  $\times$  39 =
- 4 The number that, if divided by 35, the quotient will be 139, and the remainder is 21, is
- 5 The prime number has \_\_\_\_\_ only factors.
- 6 All prime numbers are odd numbers, except is an even.
- 7 is the smallest prime number.
- 8 is the smallest odd prime number.
- 9 The smallest two-digit prime number is
- 10 Prime numbers less than 10 are
- is a number whose prime factors are 2, 5, 7
- 12 The GCF of the two relatively prime number is
- 13 The LCM of the two relatively prime number is
- 14 The ..... number has only 2 factors.
- 15 All prime numbers are odd numbers, except is an even number.
- 16 is the only prime even number.
- is a number greater than one, and it has only two factors.
- 18 The prime factors of 28 are
- 19 Two numbers are relatively prime if their greatest common factor is
- 20 The least common multiple of two prime numbers is
- 21  $5 \times (3 + 6) = (... \times ... ) + (... \times ... )$
- 23  $8 \times (..... + .....) = (.... \times 9) + (.... \times 2)$
- 24  $\times (4+6) (9 \times ....) + (9 \times .....)$
- 25 The number and its opposite are on from zero, but on two sides on the number line.

- 26 The opposite of "10" is the number
- The additive inverse of 8 is
- 28 The additive inverse of \_\_\_\_\_\_ is itself.
- 29 The smallest number in counting numbers is
- 30 The smallest counting number is
- The smallest natural number is
- 32 The smallest positive integer is
- 33 The greatest non-positive integer is
- 34 The greatest negative integer is
- 35 The smallest non-negative integer is
- 36 Integers between -3 and 2 are
- 37 5, 4, 3, 2, 1, 0,
- 39 Rational number  $-\frac{3}{2}$  in the decimal form =
- 40 All counting numbers are also numbers, and numbers.
- 41 The next number to -8 is
- 42 The rational number "-7.2" lies between
- 43 The rational number "-5.6" lies between and on the number line.
- numbers. 44 All natural numbers are numbers and
- 45 All integers are . ..... numbers.
- 46 -2.5 in the form  $\frac{a}{h}$  is (in its simplest form).
- 47 The rational number  $-\frac{1}{4}$  in the decimal form is
- 48 1-51=
- 49 | 7 |=
- 50  $\left| -\frac{3}{4} \right| =$

- 51 10.031-
- 52 1-0.7 | =
- 53 If 5 = I a l, then a = . ... or
- 54 If b = 1-7 I, then b =
- 55 If n = 191, then n =
- 56 | -4 | -
- 57 191+1-91=
- 58 Opposite numbers on the number line have absolute values (equal different).
- 59 The algebraic factor in "2.5 x" is
- 60 The coefficient in the algebraic term "3 \ y" is
- 61 The number of terms in the algebraic expression  $3 \vee y 25$  is
- 62 Like terms in the algebraic expression 6.1 + 6y + 21 + 6 are
- 63 The absolute term in the algebraic expression 5 b + 3.2 is
- 64 The algebraic expression that expresses "three times b" is
- 65 The algebraic expression that expresses adding "z" to 36 is
- 66 The algebraic expression that expresses 5 less than "\" is
- 67 Baher has "m" stickers in the sticker book and then puts up 12 more stickers. So he has now
- 68 Two numbers their sum is 12, one of which is d, so the other number is ( .......)
- 69 Salah saves "z" pounds per day. So he saves pounds in a week.
- 70 The verbal form for the algebraic expression 5 a + 7 is
- 71 If the side length of "a" square is "s" cm, then the perimeter of the square = .
- 72 The value of the expression 9 x if (x = 5) is
- 73 The value of the expression  $r^2$  if (r = 9) is
- 74 The algebraic expressions "2  $\chi$  + 3" and "2 (  $\chi$  + 1) are expressions. (Equal, Not equal)

- 75 The value of the expression "3 ( $y^2 + 2$ ) (if y = 3)" is
- 76 Two integers their sum is s, one of which is 10, then the other number is
- 77 In the algebraic term  $7 \times y$ , the coefficient is
- 78 Like terms for the algebraic expression 3n + 3 + 2n are
- 79 The algebraic expression that represents "twice of subtracting 5 from the number "w" is
- BO The value of the algebraic expression  $4 \times (y^3 7)$ , If y = 3 is
- 81 In 57: 5 is called and 7 is called
- 82 In 4 is called the base and 2 is called the exponent.
- B3 Six cubed =
- 84 Seven squared -
- 85 Four to the power 5
- **86** ..... to the power  $= 6^4$
- 87 If  $3^x = 81$ , then the value of x is
- 88 If  $y^3 = 64$ , then the value of y is
- $89 \quad 3 \times 3 \times 3 \times 3 \times 3 \times 3 =$
- 90 5 = 1
- 91 4 = 4
- 92 8 × 8 × 8 =
- 93 7<sup>2</sup> = .... ×
- 94  $6^2 \div 3^2 \times 2 =$
- 95 Using the opposite model:

The equation is



- **96** If x + 3 = 8, then x = 8
- 97 If y 2 = 9, then y =



- 98 If 8 m = 16, then m =
- 99 If  $\frac{1}{3}$  n = 3, then n =
- 100 If a = 3, then a + 200 = 7
- 101 If b = 5, then b = 2
- 102 If d = 4, then .....  $\times d = 20$
- 103 If k = 12, then  $K \div ... = 4$
- 104 The inequality that represents all values less than -6 is
- **105** The similarities between the graphs of the two algebraic expressions x = 6 and  $x \ge 6$  are
- 106 The inequality that represents all values greater than -1:
- 107 The inequality that represents all values less than 2:
- 108 The inequality that represents all values to the right of -9 on the number line are:
- 109 e = (8 r) independent variable is , dependent variable is
- 110 In the equation (m-8) = a, the dependent variable is
- 111 If the price of books depends on the number of books purchased, then.

  The independent variable is .

The dependent variable is

- 112 In the equation m 8 = a, the independent variable is
- 113 The equation that represents the relationship between the number of months "\" and the total money she saved "y" is  $y = 50 \ \text{\lambda}$ , then.
- -The independent variable is
- -The dependent variable is
- -The money she saved in 6 months is
- 114 If the equation is "y x + 4", then the rule is
- 115 The mean of the values "8,9,2,7,6,4,6" is
- 116 The median of the values "8,2,10,1,3,7,2" is
- 117 The mode of the values "9,2,8,3,7,3" is

118 Range = .....-

- 119 It is easier to find the range using a .... or
- 120 The range cannot be found using
- 121 The range for the values "9, 2, 4, 1, 8, 5" is
- 122 If the largest value is 15 and the least value is 3, then the range = .
- 123 If the range of a set of values is 12 and the smallest value is 5, then the largest value is .
- 124 If the range of a set of values is 25 and the largest value is 52, then the smallest value is .
- 125 and are affected by the presence of outliers.
- 126 If the mean of the values is 3,4,6,x,7 is 6, then the value of x is
- **127** The outliers in the set of values 5, 18, 3, 4, 7, 6 are

#### Third: Answer the following:

Tind:

1

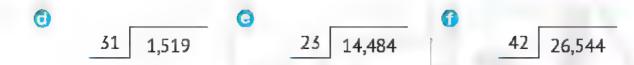
3 285

(3)

6 1,728

0

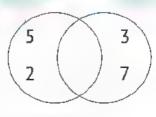
6 2,657



- [2] Solve the following problems using standard division algorithm:
- Rana sells in her cafe cakes baked in one of the bakeries. Rana received an order for the delivery of 420 cakes, Rana placed the cakes in bags and in each bag contained 12 cakes. Find the number of bags?
- A baker prepared 252 pieces of baklava at a party.
  If each tray contained 12 pieces of baklava,
  how many trays will be needed to prepare all the baklavas?
- If the total price of 25 books is 2,825 pounds, what is the price of 36 books?

The school library received 45 boxes, of 84 books each.
These books will be distributed among 12 cupboards.
How many books will be there in each cupboard?

- Hazem has 5 packs of red pencils, each with 32 pencils, and 4 boxes of blue pencils each pack has 16 pencils.
  He wants to distribute them evenly to 8 of his friends.
  How many pencils will each friend get?
- A school has 604 boys and 521 girls, it is intended to divide the boys and girls equally into 25 classes in the school. How many students will be in each class?
- - The LCM is ....
  - Are the two numbers relatively prime? (Yes No )
- 4 Complete using the opposite Venn diagram:
  - The two numbers are .... and
  - **(b)** The common prime factors are
  - The GCF is ......
  - Are the two numbers relatively prime?



3

3

5

( Yes @ No )

2

2

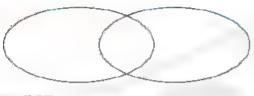
The GCF is

- 5 Ahmed wants to grow 20 jasmine plants and 30 phil plants in his garden. Ahmed wants to plant these plants in basins so that each basin contains the same number of the two types of plants. Write a numerical expression that represents the largest number of
  - ponds he can plant.

6 A merchant has 16 kg of oranges and 24 kg of apples, so if the merchant wants to divide the oranges and apples in bags of the same mass, what is the largest number of bags that can be made for each type of fruit? Does each bag have the same mass? How many kilograms of oranges will each bag contain? How many kilograms of apples will each bag contain?

7. Mahmoud wanted to divide 28 pens and 42 notebooks into groups, so that each group contained the same number of tools. What is the largest number of groups that can be configured for each type of instrument to have for each same number group? How many pens are in each group? What is the number of notebooks in each group?

8 Find the GCF and LCM using Venn diagram for numbers 24 and 16:



9) Find the result:

$$(5)$$
  $7\frac{1}{5} + 3\frac{1}{4} =$ 

$$\bigcirc 4\frac{2}{5} - 3\frac{1}{4} =$$

$$\bigcirc 7\frac{1}{2} - 3\frac{3}{4} =$$

- 10 Ahmed has 5  $\frac{3}{4}$  LE and Tamer has 15  $\frac{1}{2}$  LE. Find out the total sum of what they have altogether.
- 11 Shaima bought a pen for  $9 \frac{1}{2}$  pounds, a ruler for  $5 \frac{1}{4}$  pounds, and a notebook for 4 pounds. How much did Shaima pay?
- 12: Wael collected 3  $\frac{3}{4}$  kilograms of dates and gave 2  $\frac{1}{5}$  kilograms to his friend. How many kilograms left with Wael?

13 A road is 15 km long. it's paved in three stages;  $6 \frac{2}{5}$  km in the first stage,  $4 \frac{1}{2}$  km in the second stage. How long is the distance paved in the third stage?

Compare using ( \ or >	14	Compare	usina	(<.	=.or	>	)
------------------------	----	---------	-------	-----	------	---	---

- **1** -1.5 -1.5 **1** -1.5 **1** -1.8 **1** -1.8 **1** -1.8
- **②** 5.07 | −5.07 | **③** | −2.5 | | −3.6 | **⑥** −0.7 | −0.7 |

15 Arrange each group of the following numbers in ascending and descending order:

Ascending order:

$$-\frac{3}{4}$$
,  $\frac{5}{8}$ ,  $\frac{1}{2}$ ,  $\frac{3}{4}$ ,  $\frac{1}{4}$ 

Ascending order:

Descending order: , , , ,

- 16 Follow the order of performing operations, then find the value of each of the following:
- 48 ÷ 8 x 2
- $0 + 5 \times 6$
- 15 ÷ 3 + 7

- = .....

- $\bigcirc 5 \times 2 + 3 \times 4$
- $(3+6)\times 2$
- () [3×(9-4)]-10

- = .-.....
- = .....

- $93^2 + 2 \times 5$
- $0.3 \times 2^3 \div 12$
- $(2^4 1) \div (3^2 4)$

= . .

- = ,...,...,

- =.

- 17 Find the value of the algebraic express on in each of the following:
- 15 ÷ 3 [ If a = 2 ]
  - .
- $(6b+3) \div 7[If b=3]$ 

  - = \_

- **G** g<sup>2</sup> 32 ÷ 8 [ If g = 5 ]

  - =
  - = , , . . . .

- $(3^b + 6 \times (b^2 3)) [If b = 2]$ 
  - = . . . . . . . . . . . . . . . . . .
  - =
- 18 Write a mathematical expression that expresses each of the following situation:
- Bassem runs one kilometer in 15 minutes.

The number of kilometers that Bassem runs in "t" minutes is

In a car park, an amount of 10 pounds is collected for parking the car for first hour, and 5 pounds are added for each hour of waiting after the first hour.

The amount collected for parking the car for "h" hours after the first hour is

Hala receives a daily wage of "p" pounds. If her expenses in 10 days amounted of 325 pounds.

The amount remaining with her in 10 days is

19 Find the value of the variable in each of the following equations:

<b>a</b>	4a	_	15	-	3	[ <b>l</b> f	a -	6	]	
	=	en:	n -						-	-
	= .				BAJ B.					

0	y –	6	_ 1	1				
	=				-		ıl	

9	3	b =	45					
	=				 n			
	=					7		

d a+	6 = 3	
=		
=		

20 Diaa saves 150 pounds every month from expenses, so if the amount that he saves in (x) month is (y) pounds, then:

(a) The equation that represents this situation is

The independent variable is

The dependent variable is

What Diaa saves in a year is

21 If Hazem owns a discount card of 50 pounds. Complete:

The equation represents the relationship between Hazem's purchases amounted ( \( \) ) pounds, and the amount to be paid after the discount (y) pounds is

The independent variable is

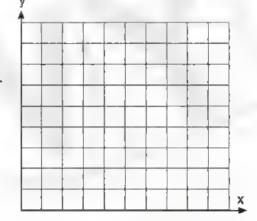
The dependent variable is .....

The required amount if the purchase price before the discount is 420 pounds is

22 Omar manufactures hats, producing 10 hats per day. Complete the following table representing the number of working days (  $\chi$  ) and

the number of hats produced (y).

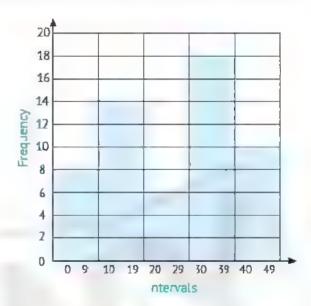
Write an equation that shows the relationship between the variables x and y and then represent it graphically.



The equation:

23 Using the following histogram, complete the following interval table:

Intervals	Frequency
0 – 9	# #) \
10 – 19	Mar material and
20 – 29	75.0. 3142 115.02 4.44 1144 1145 1144 1154 114
30 – 39	if a dam into that and malamatical
40 – 49	48 A++ A HH HQA HHQ HJ+ A H H+



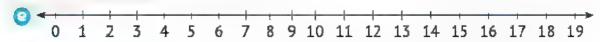
.24. The box plot for each of the following groups of values:

3,8,7,2,10,12,9,2,10,9

- a Arrangement:
- D Lower Quartile:

Median:

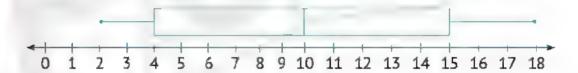
O Upper Quartile:



25 If the heights of 5 pupils in the first preparatory grade in centimeters are: 132,131,126,128,133.

Calculate the mean for these heights.

26 Find 5-points summary using the following box plots:



- The Minimum Value:
- **1** The Lower Quartile:

The Median:

The Upper Quartile:

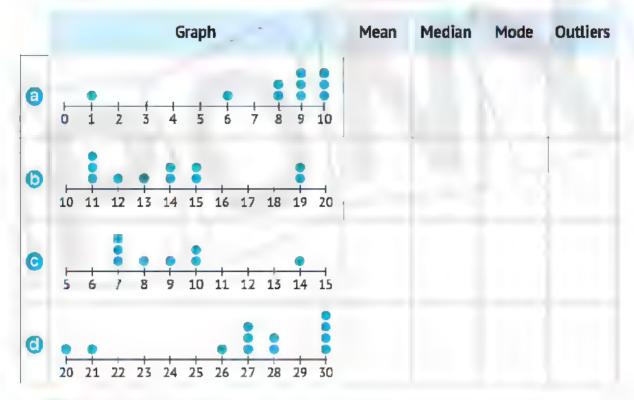
- (2) The Maximum Value:
- 27 The following table represents the temperatures recorded in a city in a week:

Day	Saturday	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday
Temperature	24°	20°	30°	21°	23°	22°	21°

Using the values shown in the previous table to find:

- The Mean:
- 1 The Median:
- The Mode:
- The Range:
- The Outliers:

28 Complete the following table using the dot plot graph for each of the following:



- 29 Match each of the following with the appropriate graph(s):
- Representation of individual values

Histogram 11

Representation of hundreds of notes

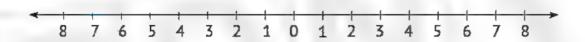
Dot plot

Representation of data clusters and gaps in the data

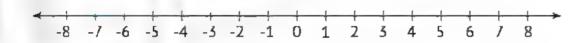
- Box plot
- Match each number line to the inequality it represents:



- 31 Use the number line to represent each of the following inequalities:



 $\bigcirc x \ge -2$ 



## Assessments on Units

#### Assessment on

# Unit 1

#### First

- **54**
- 131

- prime

- their product
- (6×7)+(6×5)
- 2x(8+3)

#### Second

- 0 1044
- 351

- their product
- $(8 \times 2) + (8 \times 7)$
- $02\frac{3}{10}$

## Third

- 1 725 RZ
- **108**
- 08 5
- $0.3\frac{13}{20}$
- 2 840 + 15 = 56 buildings
- G GCF = 8 , LCM = 48
  - none 🕜
- 01

- **3** 0 8,15 **120**
- yes yes
- 6 . GCF 6
  - 3 red roses
- 2 white roses
- $(325 (9\frac{1}{2} + 5\frac{1}{4}) = 10\frac{1}{4}$  pounds

#### Assessment on

# Unit 2

#### First

- 📵 rational number 😉 natural number

- 34

- 0 5 7
- 0.0

# 0-7,-8

Second

same , opposite

**0 0** 

- 1 integer , rational
- Q 1.5 8-, 8
  - **3** 5.6

←11.5

#### Third

① O <

01

- $2|0.8|,0.55, |-\frac{1}{2}|, -\frac{1}{4}, -\frac{3}{5}$

## Accumulative Assessments

#### on Unite 11-2

#### First

- **72**

#### Second

- (6×7)+(6×5)
- **1** −2

- @-10
- **○** 20
- **9**7,-7

#### Third

- 3 2825 + 25 = 113 pounds
- 10 GCF = 9 , 9 plants

## Accumulative Assessments (2)

#### on Units 1-2

#### First

0-42

- **35**

# Second

- 0
- 0-1.25
- 02×(8+6)

**3**−7

- **42**
- $0.5\frac{3}{10}$

#### Third

- 0 07 19
- $02\frac{3}{4}$
- @ @ 24 , 90
- **360**

#### Assessment on

# Unit 3

#### First

- 03
- 03
- **G** 2

- 602y 3
- 0 25 h
- O 5<sup>3</sup>

- 9 -
- 0 15 b
- 02

first choice

#### Second

- Os-10
- **0**7
- 3n . 2n

- @2(w-5)
- subtract 5 from 3 times x
- 06 n
- **9 80**
- □ 3<sup>6</sup>

- 00
- 01

#### Third

- 1 0 9n + 20
  - **0 1 2**
- 29
- **3**20
- 1 not equivalent

#### Accumulative Assessments (2)

## ton i In t

#### First

- **138**
- **12**
- **G**2

- 0x-9
- 01

#### Second

- 1989
- **3.2**
- **30**

- @7z

#### Third

- $\bigcirc 0.8, \frac{1}{2}, |-0.25|, -\frac{1}{5}, -\frac{3}{4}$
- $G \frac{t}{15}$  or,  $\frac{1}{15}t$

## Accumulative Assessments (2)

#### on United 1.15

#### First

- **36**
- **3.7**

- @ 23
- 2<sup>4</sup>

#### Second

- 02
- **1**
- **2**

- **48**
- add 4 to 3 times b

#### Third

- **3**4
- 02
- ②  $3\frac{3}{4} 2\frac{1}{5} = 1\frac{11}{20}$  kg

#### Assessment on

# Unit4

#### First

- 04
- 04
- 8

- **6**3
- @x>4
- 0x € -2

- 0 ×<0
- 0x<4</p>

- the second graph

#### Second

- 02
- **©**5
- **3**4

- **6**
- **12**
- 03x = 15

- ⊕x<-6</p>
- ①x≥3
- 0 < x
- 9 belongs to both

#### Third

- ② ○x>1 or x≥-2
- 0x4-3 or x<-2

PONY - Math Prim. 6 - First Term C(117)

#### 6 Guide Answers

#### Accumulative Assessments



#### First

- 01
- @ 9
- 0 0

#### Second

- 2 2
- 07
- Oy-3

**6**~ **5** 

- @ 2
- 8-4x O

#### Third

- 0x+2-9
- 3x = 12

#### Accumulative Assessments (2)



#### **First**

- their product
- D -8
- 2

- @ x+5

#### Second.

- their product
- 6 8x(9+2)=(8x9)+(8x2)
- **3**
- **1**

#### Third

- $\bigcirc$  (604 + 521) + 25 = 45 students
- **2** 0 12
- **0** 8

#### Assessment on

# Unit 5

#### First

- 6 b
- O r
- @ exam result
- the number of days you go to the club
- 1 y = 6 x
- y = 2(x + 5)
- 1180 PONY Math Prim. 6 First Term

- subtract 8 then divide by 3
- 0 8
- 0 18
- **32**

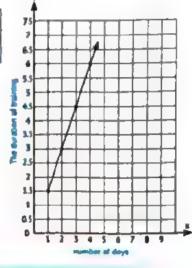
#### Second

- (1) a
- (1) size of garage 2 number of cars
- What Ahmed saves in all week, what Ahmed saves everyday
- ② ① y=x+4 , ② 4
- 1 add 15 then divide by 4 . 2 5

#### Third

×	1	2	3	4
y	1.5	3	4.5	6

- The equation
- y = 1.5 x



#### Accumulative Assessments

#### on Units 1-5

#### First

- **a** 1
- (a) (a)
- 45
- **3**

#### Second

- 8
- 21
- **10**

Q

- $0 \times 2$
- multiply by 5

#### Third

- 00 y = 150x
  - (D) X
- 1800 pounds
- 2 5950 + 17 = 350 cups

#### Accumulative Assessments

#### of United 16

#### First

- 0 15
- 0-1
- @(m+18)+3

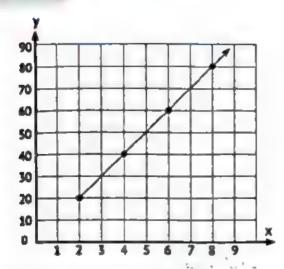
- 03×3×3×3
- **3**

#### Second

- 02,3,5,7
- 09,3,6
- G-2,-1,0,1

- same
- **1**2

#### Third



• The equation is y = 10 x

#### Assessment on

# Unit 6

#### First

- 1 It results in a lot of different answers
- favorite colors
  - @ ages
- @ weight

- names
- 1 histogram
- Odot plot
- 10 both bar graph and histogram
- 08
- 7 8

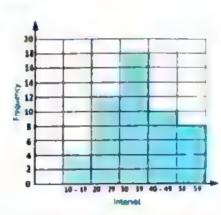
#### Second

- statistical , non statistical
- numerical , categorical

- numerical
- 1 numerical
- histogram
- D bar graph
- **9**7
- **a** 1
- o dot plot
- histogram

#### Third





- 2 order: 2,2,3,7,8,9,9,10,10,12
  - . Min: 2
- Max: 12
- Median, 8.5

- Upper: 10
- Lower: 3, ( Draw by your self)
- 3, dot plots
- 2 52, both
- 32, dot plots
- **1**, dot plots
- 59, dot plots
- Dot plots
  - 1) How many students weight 50 kg?
  - 2 How many students weight less than 40 kg?
- Box plots
  - What is the upper quartile?
- 2 What is the lower quartile?

## Accumulative Assessments

#### bn Units 1-6

#### First

- **a** 1
- 0
- rational

- **0** 3
- @x4-7

#### Second

- 06.4
- 0 65 b
- **@**7

- $0 \times 0$
- 0 x>1 or x≥2

PONY - Math Prim. 6 - First Term Cills

#### **Guide Answers**

#### Third

- 002
- 0 10
- 0 6

- 0 8 **00** 34
- 6 5 29

#### Accumulative Assessments (2)

#### on United & B

#### First

- O 11
- 0 2

- $0\frac{1}{2}(a-7)$

#### Second

- onon statistical 6 6
- 0 2

- **1**
- **◎** 3b . 2b

#### Third

- 3556 + 14 = 254 microbuses

#### Assessment on

# Unit 7

#### First

- **63**
- 0 6
- median

- histogram
- o range
- decrease
- Doth of mean and median
- **15**

- 0 3
- 07

#### Second

- **9** 5
- **3,5**
- **2** 14

- **18**
- e mean , range

#### Third

- D 0 24
- **1** 24
- **24**

- **10**
- **29**
- (1200 PONY Math Prim, 6 First Term

- Q Q 25
- **3** 25
- **9** 50

## Accumulative Assessments

#### on United -7

#### First

- 01
- @ 4 1/4
- @ -2.-3
- 02(x+7)
- Bar graph

#### Second

- 6 11
- □ -5.9

**25** 

- $0 \times -1$
- 😉 z , m

#### Third

- **0** 0 21
- **10**
- 0 14
- **11**
- **2 0** 10
- 0 2
- 0 6
- **2** 8

#### Accumulative Assessments (2) on Units 1-7

#### First

- 0 2×(8+3)
- even number
- Favorite colors

**○** 5 , -5

#### Second.

0 2

0 6

- **□** −15
- **3** 
  - words

#### Third

. 8,14,6,18,10

O -95

distance traveled

@ w

**1** 22

histogram

D bar graph

ach includes all values to the left of 4

100 6

(ii)

0 0

**W**all

**a** dot plots

results in a lot of different answers

(II) favorite colors (III) favorite TV shows

(II) each value is represented by a point.

the number of correct answers

1 subtract 3 then divide by 2

 $\mathbf{Q}_{\mathbf{X}} < 0$ 

#### First

**2** 15b

- O 27 O 6 O 157
- O has only 2 factors
- **0**2×2×3 **0**8
- O their product O their product

- O their product their product
- **1** 40 **2** 1 **2** 35
- (a) 25 (b) 210 (c) 1 (c) (6 × 7) + (6 × 5) (d) 4 × (9 + 3)

- 8 -6 3 -1 3 0 (2) each bar represents a number or categorical (2) the bars must touch
- ① < ① > ① -5 ② bars are used to represent data
- 6 even number 6 natural 20 bar graph 20 all
  - $\frac{3}{4}$   $0 \frac{5}{1}$  0 > 0 can display numerical and categorical
- (5) 3.7 (5) 0 (5) 2.7 (10) 18 two modes (10) increases (11) Both (12) 18 (13) range (11) histogram
- (9) farther from (6) 2 (1) -3 (1) -3 (2)  $-4\frac{2}{3}$  (2)  $-4\frac{2}{3}$  (3) second one (3) -3 (4)  $-4\frac{2}{3}$  (5) -3 (6) second one (3)  $-4\frac{2}{3}$  (6) -3 (7)  $-4\frac{2}{3}$  (8)  $-4\frac{2}{3}$  (9)  $-4\frac{2}{3}$  (9)  $-4\frac{2}{3}$  (10)  $-4\frac{2}{3}$
- ① 60-x ② x-5 ② 3 ② 1 (a-7) ② 5 ③ 53 ③ none
- $0 \times + 10$   $0 \times + 10$

#### 1 0 2<sup>5</sup> 00 Second

1 4×4

**1** 

- (B) (B) 19 (D) 48 (D) 9 (D) 1989 (D) 33 (D) 120 m (D) 5d + 20 (D) 4886 (D) 2 (D) 2
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. PONY - Moth Prim. 6 - First Term 01210-

#### Guide Answers

- 02.2.7
- 1 (D)
- their product
- 2 5.3.5.6
- @ 7.2.4
- 3 9.2.8.B
- 2 9.4.6
- the same distance \ different
- **3** -10
- @ -8
- 20 0

- 01
- 30 1
- **①** 0

- **2**1
- **1**0
- D-1

- **3** 0
- 10 -2, -1, 0, 1 10 -1, -2, -3
- = 1.0.1.2
- 39-1.5
- (I) integer , rational
- **Q** -7

- P -7:8
- CB -5:6
- natural integer, rational
- 49 rational

- $0 \frac{5}{2}$
- **1.75**
- **4** 5

- 1 0 7 0
- **3** 0.03

- **3** 0.7
- **3**5,-5
- **3** 7

- **3** 9
- **66** -4 59 x
- **18**

- @ equal **@** 2
- 3 6 x .2x
- 60 3 3.2 S

- (2) 3b
- 65 z + 36
- 66 x 5

- @ m + 12
- 12 d
- **ᡂ** 7z
- To five times a increased by seven
- 1 4s
- **22** 45
- **B** 81

- not equal
- **33**
- 7 s-10

- **@** 7
- 73 3n.2n
- @ 2 (w-5)

- **(10)** 80
- base , exponent
- (D) 42
- $\odot$   $6^3$
- **3** 7<sup>2</sup>

- **3** 45
- **36.4**
- **1** 4

- **O** 4
- **@** 3<sup>6</sup>
- **90** 0

- 0 1
- **22** 8
- 937×7

- **(1)** 8
- 1 x+1-8,7 15
- **11**
- 98 2
- 99 9

- 100 4
- **100** 3
- **@** 5

- 103 3
- **®** x<−6
- 6 belongs to both
- $00 \times > -1$

- 1 x < 2
- **@** x>−9
- 09 r.e

- (iii) a
- m number of box, the price of box
- (III)
- x , y , 300
- add 4
- **6** 3

- @ greatest value smallest value
- dot plots or box plots
- 1 histogram

**(2)** 8

**@** 3

- @ 15 3 = 12 @ 17
- **23** 27
- (B) Mean , range
- **26** 10
- (20 18

#### Third

- 0 95
- **1 288**
- **442 RS**

- @ 49
- @ 629R17
- 0 632

- 2 0 35 bags
- 1 21 trays
- 45 x 84 = 3780 , 3780 + 12 = 315 books
- 32 x 5 = 160 pencils
- $4 \times 16 = 64$  pencils
- Total = 160 + 64 = 224 pencils
- Each friend = 224 + 8 = 28 pencils
- @ each class = 1125 + 25 = 45 students
- **3 1** 12 , 45
- 3

**G** 1

- **180 4 a** 10,21
- e no o none
- **1** 210
- yes
- **6** 10
- 6 greatest 8
  - 2 oranges, 3 apples
- 14 groups
  - 2 pens 3 notes
- GCF = 8 , LCM = 48

- $021\frac{1}{4}$
- $\mathbf{O} 1 \frac{11}{20}$

(B) (3) <

- (D) <
- **G** <

**(1)** >

9 =

- @ « (D) <
- 0 <

- - Descending [12], 8, [-3], -9, 17
  - **O** Ascending:  $-\frac{3}{4}, \frac{1}{4}, \frac{1}{2}, \frac{5}{8}, \frac{3}{4}$ 
    - Descending:  $\frac{3}{4}$ ,  $\frac{5}{8}$ ,  $\frac{1}{2}$ ,  $\frac{1}{4}$ ,  $\frac{3}{4}$
- 6 0 12
- **54**
- **12**

- **@22**
- **18**
- 0.5

- **0** 19
- **1** 2
- **0** 3

- **(1)** (3) 3
- **©** 3
- @ 21
- **③** 15
- 00t
- 5h + 10
- □ 10 p 325

- 19
- **17**
- G 15
- **18**
- (D) X
- O y
- **1800**
- (1) Oy = x 50 Ox

  - **G**y
- **370**
- 20,40,70,90 , y=10x
- @ 8,14,6,18,10

- **2** 0 2.2.3.7.8.9.9.10.10.12
  - **@** 3
- 6 8.5
- 10
- 0



- **23** 130
- 26 (3) 2
- 04
- **10**

- **15**
- **1**
- **20 0** 23
- **22**
- **21**

- **a** 10
- **30**
- (D) (0 8 . 9 . (9.10) . 1
  - 14,14,11,19
  - **69**, 8.5, 7, 14
  - **1 27** , 27.5 , 30 , (20,21)
- 29 3 2
- **a** 3
- **6**1

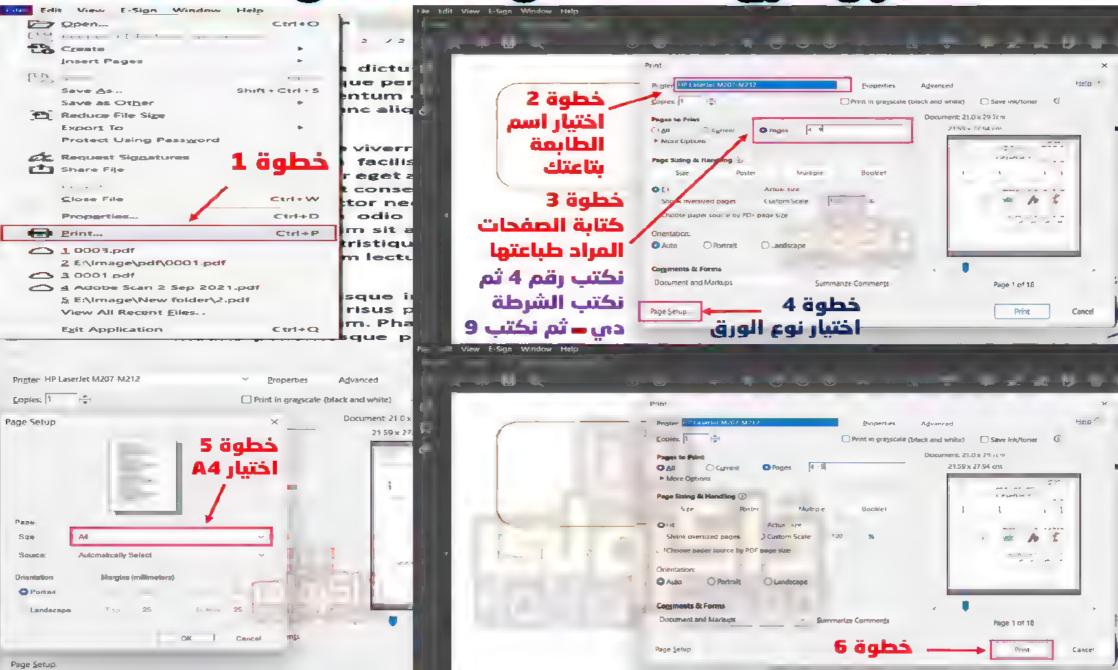
- 30 🗈 2
- 04
- **3**
- 01
- 10



# چینی طباعی صفحات معینی مناور الله معینی



# وثلاراي تطبع العثمات من عثمت 4 الباطبع المعتمال والمنافقة



ENRO

# المراجمة رقور2)







## **General Revision**

# on UNIT 1

. Cno	pose the correct a	nswer		
1. 2	235 is divisible by			
	A. 2	<b>B.</b> 3	<b>C</b> . 5	<b>D</b> . 10
2, 1	The number——	is divisible by bo	oth 2 and 5	
	A. 206	<b>B.</b> 425	C. 524	D. 620
3. 1	Which of the follow	wing is divisible by 4?		
	A. 441	<b>B.</b> 160	C. 483	<b>D</b> . 514
		re divisible by 6 excep	t	
	A. 924		C. 663	D. 252
5.	"331+"	is divisible by 3		
	A. 0	B. 1	C. 2	<b>D.</b> 3
6.	If the prime factori	ization of a number is	2 × 2 × 2 • then the nu	mber is ———
	•			(Alexandria - West 24)
	A. 8	B. 4	C. 6	D. 222
	4 is a factor of ——			(El Menia – Matay 24)
	A. 40	B. 39	C. 38	D. 37
8.	The number which	its prime factors are 2	2,3 and 5 is	[El Beheira - Kafr El Dawar 24]
	A. 10	<b>B.</b> 15	C. 30	<b>D</b> . 13
9.	The common facto	or of all numbers is		
				ıla 24 , El Menofia – El Sadat 24)
	<b>A.</b> 0	<b>B.</b> 1	C. 2	<b>D.</b> 3
10.	Which of the follow	wing are relat vely prir	me numbers ?	[Ismailia 24]
P-	A. 4 and 6	<b>B.</b> 8 and 15	C. 8 and 18	D. 8 and 24
11. 7	The G.C.F of two re	latively prime number	rs is —	[Giza - Bolak 24]
	<b>A.</b> 0	B. 1	C. 2	<b>D.</b> 3
12.	The G.C.F of 6 and 9	9 is	1	[Cairo - El Mokattam 24]
	<b>A.</b> 3	<b>B.</b> 18	C. 36	D. 1
13.	The G.C.F of 6 and 1	10 is		[Cairo - El Zaitoun 24]
	A. 2	<b>B.</b> 3	C. 6	D. 10
14.	The G.C.F of 4 and 1			(Cairo - El Maadi 24)
	A. 1	B. 4	C. 9	D. 36
	The LC.M of 4 and			[Port Said 24]
	Δ 2	R 4	C. 8	D. 12

- In the opposite Venn diagram, the G.C.F is
  - A. 60
- B, 4
- C. 6
- D. 20
- In the opposite Venn diagram, the L.C.M is
  - A. 2
- **B.** 15
- C. 30
- D. 10
- 18. In the opposite Venn diagram, the L.C.M is
  - A. 1
- **B**. 3
- C. 2×5
- **D.** 30
- **19.** 10 + 45 = 5[ ----+-

A. 10,40

- B. 5,40
- C. 9,5
- \_\_\_ [5+6] **20.** 35 + 42 =
  - A. 35
- **B.** 30
- C. 6
- = 12 (5 + 1)
  - A. 17,13
- B. 60,12
- C. 60,1

- 22. 24+16-
  - **A.** 16[2+1]
- **B**. 8[3+2]
- C. 2(12+6)
- **23.** 5+12=---[5+12]

- C. 12
- 24.  $\frac{2}{7} + \frac{3}{7} + \frac{5}{7} = -$
- C. 1

- **25.**  $1\frac{2}{5} + 3\frac{1}{5} = \cdots$ 
  - A.  $3\frac{4}{5}$  B.  $4\frac{3}{5}$
- C.  $3\frac{4}{10}$

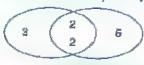
- 26.  $\frac{1}{2} + \frac{1}{3} =$
- C.  $\frac{1}{6}$

- 27.  $6\frac{1}{8} + \frac{3}{4} = -$
- B. 6  $\frac{7}{9}$
- C.  $6\frac{5}{8}$

- **28.**  $5\frac{1}{2} + 3\frac{1}{5} =$ 
  - A.  $8\frac{2}{7}$
- B. 8 7
- **C**. 8  $\frac{1}{2}$

C. 75

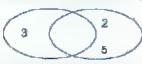
(El Monofia - Sers El Layan 24)



[El Beheira 24]



[Cairo - El Mokattam 24]



[Kafr El Sheikh - Bayala 24]

D. 2,9

[Cairo - El Sahel 24]

D. 7

(Kafr E. Sheikh - Bayala 24)

D. 5,12

(Ismailia 24)

D. 4[6+12]

[Giza - Awseem 24]

D. 60

(E. Monofia - El Bagour 24)

D. 1<sup>3</sup>/<sub>7</sub>

[Giza - Bolak 24]

D,  $3\frac{1}{5}$ 

[Port Said 24]

D.  $\frac{2}{4}$ 

[Cairo - El Mostabal 24]

D.  $7\frac{4}{9}$ 

(Cairo - El Mokattam 24)

**D.**  $8\frac{2}{5}$ 

(Cairo 24)

 $C. \frac{3}{14}$ 

[El Beheira - kafr El Dawar 24]

[Cairo - Rod El Farag 24]

c. 29

[Port Said 24]

D.  $\frac{3}{4}$ 

#### 2. Complete the following.

1. Each number is divisible by \_\_\_\_\_

= 24, then \_\_\_\_\_ is a multiple of each of \_\_\_\_ and \_ and also is divisible by each of \_\_\_\_\_ and \_\_\_\_

3. The common multiple of all numbers is \_\_\_\_\_\_

[El Fayoum - West 24]

4. \_\_\_\_\_has one factor only.

[Port Said - North 24]

5. 12+6=6[ +----]

[Cairo El Mostabal 24]

**6.** 7[5+3] = ----+

(Souhag 24)

7. 3 [ + - - ] =  $[3 \times 6] + [3 \times 7]$ 

[El Menia 24]

8. The L.C.M of 8 and 16 is \_\_\_\_\_

[Cairo - El Maadi 24]

9. In the opposite Venn diagram.

[A.exandria - Middle 24]

A. The two numbers are \_\_\_\_\_ and \_

**B.** The G.C.F = \_\_\_\_\_

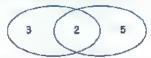
10. In the opposite Venn diagram.

A. G.C.F = ---

C. The L.C.M = -

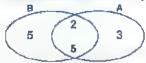
B. L.C.M = -

[Port Said - Port Fouad 24]



11. In the opposite Venn diagram.

A. G.C.F = ---B. L.C.M = [Et Monofla - Et Sadat 24]



12. In the opposite Venn diagram.

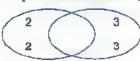
A. G.C.F = ----

B. L.C.M = -

13.  $\frac{2}{6} + \frac{4}{6} = \cdots$ 

 $14. \frac{2}{5} + \frac{3}{10} =$ 

[Port Said - East 24]



[Calro - New 24]

[El Menia - Mallawi 24]

[Cairo 24]

16. 
$$\frac{5}{6} - \frac{3}{8} = -$$

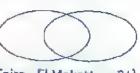
[Kafr El Sheikh 24]

[Beni Suef - Samesta 24]

- 3. Answer the following questions.
  - 1. Find (G.C.F) & (L.C.M) of the two numbers [6 & 10] susing Venn diagram.



2. Find (G.C.F) of 7 and 12 using Venn diagram.



(Cairo El Mokattam 24)

3. The following numbers shows the number of volunteers in 6 cities in Egypt. The numbers are 21, 102, 225, 120, 100 and 101 complete:

A. The even numbers are

B. The odd numbers are

C. Which numbers are divisione by 2?

- 4. The Food Bank wants to distribute 118 food boxes, is it possible to distribute the boxes among 4 villages equally? and why?
- 5. Sylvia has 21 pencils and 14 erasers. She wants to put them in groups. What is the greatest number of groups that can be made so that each group has the same number of items?

How many pencils will be in each group? How many erasers will be in each group? and write the expression which represents the total number of items.

## or UNIT 2

#### Choose the correct answer.

The integer which comes just before – 3 is

[Ismailia 24]

- $B_{1} 2$
- $C_{1} = 1$
- **D**, 0
- 2. The integer which comes just after 1 is -----

[Port Said 24]

- B. 1

C. 0

 $D_{1} - 2$ 

3. Which of the following is an integer?

[El Kalyoubia 24]

- $C_{-} = \frac{15}{5}$
- $D_{\rm s} = 0.4$

4. -83 \_\_\_\_\_ the set of natural numbers.

(Assiut 24)

A. is not a subset of

B. is a subset of

C. does not belong to

- D. belongs to
- All the following numbers are rational except —

[Cairo - El Mokattam 24]

- A. 1

- The number which represents the temperature 3 below zero is

Cairo - El Zaitoun 24]

- A. 0
- $B_{1} = 3$
- $C_{1} 5$
- D. 3
- The integer which represents depth under sea level in meters is —

- A. 50
- $B_{1} = 50$
- C. | 10 |
- **D**. 0
- 8. The best subset of the number 0 is \_\_\_\_ number.

Cairo 24

- A. a rational
- B. an integer
- C. a natural
- D. a counting
- **9.** The number  $\frac{1}{3}$  belongs to the set of \_\_\_\_\_ numbers.
- [Giza Abo El Nomrous 24]

- A. integer
- B. natural
- C. rational
- D. counting

10. 3.5 is \_\_\_\_\_ number.

[El Menia - Matay 24]

- A. a counting
- B. a natura.
- C. an integer
- D. a rational
- 11. The sum of any two opposite numbers is \_\_\_\_\_

(Ismailia 24)

- A. 1
- B. 2

**C**. 0

 $D_{1} = 1$ 

12. Any negative number ———

- A. >
- B. <

C. =

D. otherwise

- 13. The set of counting numbers
- the set of rational numbers.

[El Monofia - Sers El Layan 24]

Alexandria - El Montaza 24

- A. belongs to
- **B.** does not belong to **C.** is a subset of
- D. is not a subset of

14.	The set of integer	s is a subset of the se	t of numbe	rs. (Kafr El Sheikh 24)
	A. counting	<b>B.</b> prime	C. rational	D. natural
15.	The number of int	tegers on the number	line is	[Assiut 24]
	A. 100	<b>B</b> . 2	C. infinite.	D. 1
16.	~31			(ismaila 24)
	A. <	B. >	<b>C</b> . ≥	D. =
17.	3.8 >			[El Menia - Maghagha 24]
	A. 4.1	<b>B</b> . 5	<b>C.</b> – 6.8	<b>D</b> . 6
18.	-1.34 <			(El Kalyoubia 24)
	A. 1.4	B1,29	<b>C</b> 1.4	D. 1.19
19.	-1.4	1.4		(Kafr El Sheikh 24)
	A. >	B. <	<b>C.</b> =	D. otherwise
20.	_4	3		[Cairo 24]
	A. <	B. >	c. =	D. otherwise
21.	$-\frac{1}{2}$ zero	o .		(Giza - Abo El Nomrous 24)
	A. <	B. >	c, =	D. ≥
22,	_3 the	additive inverse of = 3	3	[Cairo- Al Salam 24]
	A. >	B. <	C. =	D. otherwise
23.	$\frac{5}{9} - \frac{1}{3} - \frac{3}{3}$			[Giza - October Garden 24]
	Y 3 3	B. <	C. =	D. ≥
24			d its opposite on the n	
	equals		a res opposite on the h	(Cairo - El Maadi 24)
	A5	B. 10	C10	D. 0
25.		veen 0 and – 2 on the		— units.
				[Cairo - El Mostabal 24]
	<b>A</b> . 0	B. 2	C. 4	D. – 2
26.	The number of inte	egers between – 2 an		[El Men a - Mallawi 24]
	A <sub>r</sub> –1	B. 2		D. infinite.
27.		er between 2.4 and 2.		(El Monofia - El Bagour 24)
	A. 2.53	B. 2.5		D. 2.39
		er between – 3.2 and		(Alexandria - Middle 24)
		B. = 3.15		D. = 318

<b>29</b> .	is lying between 2.14 and 2.2			(Cairo 24, El Menia - Matay 24)		
	A. 2.15	B. 2.21	C. 2.20	D. 2.22		
30.	The number of rat	tional numbers lying b	etween $\frac{-1}{4}$ and its	opposite is	(Cairo 24)	
	<b>A.</b> 0	B. 1	C. 2	D. an infinite	number.	
31.	The number 0.3 =	:[in the for	m of $\frac{a}{b}$ ]	(El Menia	a – Mallawi 24)	
	A. 3	B. $\frac{10}{3}$	c. $\frac{3}{10}$	D. $\frac{-3}{10}$		
32.	The number – 1.5	in the form of $\frac{a}{c}$ is	10	IM	fia - Menof 24)	
	$\mathbf{A}_{r} - \frac{1}{5}$	$B_* = \frac{5}{1}$	$C_{1} - \frac{15}{10}$	$D_{x} = 5\frac{1}{10}$		
33.	The additive inve		10	10	Maghagha 24]	
	<b>A.</b> 1	<b>B.</b> – 15	<b>C</b> . 15	D. 0		
34.	The additive inve	rse of =  3 is		(Et Monofia - Shei	bin El Korn 24)	
	<b>A.</b> – 3	B. 3	C1-31	D. $-\frac{1}{3}$		
2. Co	mplete the follow	ina.				
	-7 =			(El Beheira - Kaf	r El Dawar 24)	
	The smallest cour	nting number is			(Qena 24)	
		non-negative integer is		(Giza - 6 <sup>th</sup> October 24)		
4.	-4 +4=			(Qena 24		
5.	4 × -4 =				(Cairo 24)	
6.	$\left  -3\frac{1}{4} \right  + \left  3\frac{1}{4} \right  = -$			(Carro -	El Nouzha 24)	
	The state of the s	comes directly before	e_1is	[Kaf	r Et Sheikh 24)	
8.	The number	is neither positi	ve nor negative.	[El Beheira - Kaf	r El Dawar 24)	
9.	The number of int	egers between – 5 an	d 3 is	[Alexandri	ia - Middle 24]	
10.	The additive inver	se of –1 is		(El Menia -	Samalout 24)	
11.	The additive invers	se of 2.5 is		(El Menia - D	eir Mawas 24)	
12.	The rational numb	er 0.25 in the form of	<u>a</u> is	(Alexandria - Bo	org El Arab 24)	
13.	Two opposite num	bers, one of them is 8	i			
	then the other nu	mber is		(G za - Abo El	Nomrous 24)	
14.	The distance betw	een 4 and 0 =	—units.		(Ismailia 24)	
15.	The smallest num	ber of [0.2 , 0.12 , 1.1 and	d 2.1) is	(El Mon	ofia - Tala 24)	
16.	The distance betw	een 5 and   _ 5   on the	e number line is —	units.		
				(Et Men	ia - Matay 24]	

- Answer the following questions.
  - 1. Represent the numbers 4 . 3 and 2 on the number line.

[Cairo - El Salam 24]

2. Arrange the following numbers descendingly.

[El Monof a - El Shohada 24]

3. Arrange in an ascending order :

4. Arrange the set of numbers in an ascending order.

$$1.4 = 3\frac{1}{4}, 2.1, -1\frac{7}{8}$$

(Cairo - El Zaitoun 24)

5. Order the given set of numbers from greatest to least, using the table shown.

$$3.4, -2\frac{1}{2}, 0, -4\frac{3}{7}, 3\frac{1}{4}$$

(El Monofia – Sers El Layan 24)

Greatest		Least

6. Write four rational numbers between 5.8 and 5.9

[El Menia - Mallawi 24]

## on UNIT 3

#### Choose the correct answer.

Which of the following is a numeric expression?

[Cairo - El Salam 24]

- A.  $12 \div 3 + 5$
- B. 5x 1
- C.2v+3

[Alexandria - El Montaza 24]

- 2. Which of the following is an algebraic expression? A.  $3^2 - 6$ 
  - B. 5x + 4
- C.  $28 3^3$

D. 3(3+9)

3. Which of the following is NOT a numeric expression?

D.  $3 \times 5 + 1$ 

D.4z - 1

- A. 5x + 3
- B.  $5^2 + 4$

[El Menia - Matay 24]

[Kafr El Sheikh - Bayala 24]

In the algebraic expression: 3 y +6, the coefficient is:

A. 6

- B. 3
- C. V

D. 36

5. In the algebraic expression: 7 + 3 x, the coefficient is

(Cairo 24)

- A. 7
- B. 3 x

- D. --7
- 6. The constant in the expression: 3 x + 7 is \_\_\_\_\_

[Kafr El Sheikh 24]

- B. 3

- D. x
- 7. The constant in the expression: 2a+7+4a is =

D. a

- A. 2
- B. 4

C. 7

[El Monofia El Shohada 24]

[Port Said 24]

- A. 5 x
- The constant in the expression: z = 2y + 5x + 3 is B. 2 y

- **D**. 3
- 9. The number of terms of the expression: x + 12 is

[Alexandria El Montaza 24]

- B. 3

**D**. 5 [Cairo - Rod El Farg 24]

- A. 5
- B. 3

C. 2

- D. 1
- 11. The algebraic expression which consists of 3 terms is

10. The number of terms of the expression: 3x + 2y + 5 is

[El Menia - Mallawi 24]

- A.2s+k+7
- B. abc
- C. 11r
- D. 3
- 12. The number of like terms in the expression: 4n+4+3m+2 is
  - \_\_\_\_ (Kafr El Sheikh 24)

- B. 2

- D. 4
- 13. The like terms in the expression: 2x + 3x + 8 are A. 2 x and 8
  - B. 2xand3x
- C. 3 x and 8
- D. 8 and 3

14. Which of the following are like terms?

[El Monofia - Sers El Layan 24]

- A. 3 x and 3 y
- B, xyandyz
- C. 31 x and 13 x
- D. x and y
- 15. The age of Bassam now is x years, then his age after 3 years is —
- [Cairo El Nouzha 24]

[Giza - 6<sup>th</sup> October 24]

- A. x = 3
- **B**. x

- C. 3 x
- D. x + 3
- 16. Twice a number subtracted from it the number 5 is written as \_\_\_\_\_ [Cairo El Maadi 24]

- **A.** 2[x-5]
- **B.** 5 2x
- **C.** 2[5-x]
- D. 2x 5

17. 7 less a numbe	r k is written as	-	[El Monofia ~ Tala 24
A. k-7	<b>B.</b> 7-k	C. 7+k	D, k/7
18. If we subtract!	from the number x 2	we get	(Port Said 24
A. x+5	B. 5x	<b>C.</b> $5^2 + x$	D. x-5
19. 4 times a numb	er less than 6 is writte	en as	[Cairo 24]
A. $4x + 6$	B. $6 - 4x$	$C. x^2 - 6$	D. 4x-6
20. $5 \times 5 \times 5 \times 5 =$	5 —		(Luxor 24)
A. 2	<b>B</b> . 3	<b>C</b> . 4	<b>D.</b> 20
21. The base in the	exponential expressi	on 9 <sup>2</sup> is	(Aswan 24)
A. 9	<b>B.</b> 2	C. 9 <sup>2</sup>	D. otherwise.
<b>22</b> , 2 <sup>3</sup> =			(Cairo - El Mokattam 24)
A. 2×2×2	B. 3×3	C. 3 <sup>2</sup>	D. 3×2
23. Five squared =			[El Fayoum 24]
A. 2 <sup>5</sup>	<b>B</b> . 5 <sup>2</sup>	<b>C</b> , 5 <sup>5</sup>	D, 2 <sup>2</sup>
<b>24.</b> 8 cubed = —			[Ismailia 24]
A. 8×8	B, 8 <sup>3</sup>	C. 8+8	D. 8×3
	dd to five cubed equal		[Giza 24]
	<b>B.</b> 3 <sup>2</sup> + 5 <sup>3</sup>		D. 3 <sup>3</sup> +2 <sup>5</sup>
			— [Alexandria - El Montaza 24]
	B. subtraction.		
			2 <sup>2</sup> is (Cairo - New 24)
	B. multiplication,		D. exponent.
	·		[El Monofia - Menof 24]
A. 4	<b>B</b> . 5	C. 6	D. 71
29. The value of the	expression: 5 n – 2 fo	rn = 1 is	[Cairo – Rod El Farag 24]
A. 5	B. 3	C2	D. 1
30. What expression	n is equivalent to : 2 x	+ 10 ?	(Cairo ~ Rod El Farag 24)
<b>A</b> . $2[x+5]$	B. 12 x	<b>C</b> . 20 x	D. 2x+5+2
	expressions are equiv	/alent except	[El Monofía - Tala 24]
A. 4x+8	B. 2[2x+4]	<b>C.</b> $4[x+4]$	<b>D.</b> $4[x+2]$
2. Complete the follow	wing.		
	expression	ı.	[El Menia Mallawi 24]
2. In the algebraic e	expression:2n+7,th	e coefficient is -	(El Beheira 24)
3. The constant in t	he algebraic expression	on:5x+3b+4is	(El Fayoum 24)
			f

4. The like terms in the algebraic expression: $6x + 3x + 3$ are	[Aswan 24]
5. The age of Ahmed now is x years, then his age after 5 years i	S [El Monofia Tala 24]
6. 10 less a number is written as	[Cairo – El Nouzha 24]
7. The verbal form of: a <sup>2</sup> is	[Cairo - El Mostabal 24]
8. The verbal expression of : 2 m = 7 is	(El Fayoum 24)
9. The variable in the expression:5 a + 3 is	(El Monofia El Sadat 24)
10. In 72, the base is and the exponent is	(Cairo - New 24)
11. 9×9×9×9=9	(Alexandria Middle 24)
<b>12.</b> $3^3 =$	[Alexandria - El Gamarek 24]
13. 20 ÷ 4 + 3 × 5 – 5 =	[Et Beheira - Kafr Et Dawar 24]
14. $[3^2 + 4] \div 13 =$	(El Fayourn 24)
15. The value of the expression: $2x + 3$ for $x = 5$ is	(Calro 24)
<ul><li>3. Answer the following questions.</li><li>1. Use the order of mathematical operations to simplify:</li></ul>	
$A.4+3^2\times 2\div [5+1]$	[El Monofia - El Bagour 24]
<b>B.</b> $25 + 12 - 2^2 + (5^2 - 20)$	[Alexandr a - Borg El Arab 24]
2. Write the algebraic expression: the sum of 2 times x and 5	[Cairo El Sahel 24]
3. Evaluate the expression:	
<b>A.</b> $6 + [8 \times -3]$ when $x = 1$	[Aswan 24]
<b>B.</b> $5 x^2 + 8 \div [6 - 4] \div 2 \text{ at } x = 3$	[Kafr El Sheikh - Bayala 24]

## on UNIT 4

B. an algebraic expression.

D. an inequality.

[El Beheira - Kafr El Dawar 24]

[Alexandria El Gamarek 24]

[Cairo 24]

(Assiut 24)

[Giza 24]

[Assiut 24]

[Cairo 24]

(E. Menia - Matay 24)

(Giza - Abo El Nomrous 24)

[Cairo - El Salam 24]

#### Choose the correct answer.

1. "2 s +1 = 5" represents \_\_

A. a numeric expression.

C. an equation.

2. If y + 4 = 15, then y =

A. 18

B. 12

3. If x = 3 = 5, then x = -

A. 2

B. 3

4. If 3 a = 12, then a = ---

A. 12

B. 9

5. If  $\frac{x}{2} = 3$ , then x = -

**B**. 3

C. 6

C. 6

C. 11

**C**. 5

C. 36

**B**. 8

**6.** If x + 3 = 5, then 3x = -

7. If 80 - m = 15, then m = -

A. 10

B. 65

C. 95

D. 56

D. 24

D, 1

D. 10

D. 8

D. 4

**D**. 1.5

8. If x + x = 12, then x = -

A. 1

B. 2

9. Which of the following is an inequality?

C. 6

C. x<7

[El Monofia - El Sadat 24] **D.**  $[20 \div 5]^2$ 

10. The inequality that represented

by the opposite number line is

A. x>3

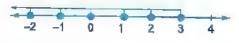
 $A.x \pm 2$ 

B,  $x \ge 3$ 

B. x - 4 = v

C. x < 3

D.  $x \le 3$ 



11. The inequality which represents the numbers greater than 3 is \_\_\_\_\_

A. x>3

B. x < 3

 $C, x \ge 3$ 

- D. x < 3
- 12. The inequality representing negative numbers is

[Alexandria - Middle 24]  $D, x \ge 0$ 

- A. x > 0
- B. x < 0
- C.  $x \le 0$
- 13. Number of solutions of inequality: x > -4 in integers is \_\_\_\_\_ [Cairo El Mostabal 24]

A. 4

 $B_{1} - 4$ 

C. 0

D. infinite.

14, \_\_\_\_\_is one of solutions of x < -1A. 0

B. 1

C. -2

[El Monofia - Menof 24]

45

15. The number

is one of solutions of the inequality:  $x \le 4$ 

(Et Fayoum 24)

A. 10

B. -1

C. 12

**D**, 5

16. All the following are solutions of the inequality:x<-1except-

[El Kalyoupia 24]

 $A_{1} = 5$ 

B. -4

C. -3

D. -1

#### 2. Complete the following.

1. If k + 1 = 5, then k = 3 =

[Assiut 24]

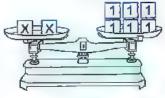
2. |fm-2=7| then m+1=

(Cairo 24)

3. If 7x = 0, then 21x = -

[Cairo - El Mostabal 24]

**4.** The equation that represents the opposite figure is \_\_\_\_\_



[El Beheira 24]

5. If  $\frac{2}{5}x = \frac{2}{5}$ , then  $x = \frac{2}{5}$ 

[El Kalyoubia 24]

6. The value of x in the equation:  $\frac{1}{2}x = 4$  is

[Cairo - El Salam 24]

7. If -9|=x, then x=

[Port Said - Port Fouad 24]

8. If 6 y = 18, then  $\frac{1}{3}$  y =

[Cairo - Rod El Farag 24]

**9.** The smallest solution of the inequality:  $x \ge -5$  is

[Alexandria El Montaza 24]

#### 3. Answer the following questions.

1. Solve each of the following equations:

A.9 + y = 16

[Cairo 24]

B.x - 3 = 12

(El Kalyoubia 24)

 $C_{xy} = 0.2 = 0.8$ 

[El Monofia - Shebin El Kom 24]

D.5t = 20

[Giza - Awseem 24]

E.x + 17 = 29

(Ismailia 24)

Find 4 possible soultions for the inequality:

 $x \ge -2$  in the integer numbers.

[Cairo 24]

3. Represent the following inequality on the number line:  $x \ge 2$ 

[Giza - Abo El Nomrous 24]

## on UNIT 5

#### Choose the correct answer.

1. In y = 2x + 1, the dependent variable is -

[Qena 24]

- B. 1

C. x

D. y

2. In the equation: 5x + 3 = y, the dependent variable is

[Calro 24]

D. 3

3. The independent variable in the equation : x = 3y - 2 is

[Alexandria - El Montaza 24]

- **A**. ×
- B. y

C. 3

D. 2

4. In the equation: m = 5 n + 3, the independent variable s

[.smail.a 24]

- **B**. 3

C. n

D. 4

5. The independent variable in the equation : y = 4xis

[Et Menia - Mallawi 24]

- B. x

D. 4x

6. If the production F depends on the number of working hours Wathen the independent variable is-[Kafr Et Sheikh 24]

- A. F
- B. W

8. "y equals the product of x and 3" represents

- C. F+W
- D. F W

7. The relationship that represents the equation :  $y = \frac{1}{5}x$  is

(El Menia - Matay 24)

- A. divide by 5
- B. multiply by 5
- C. add 5
- D. subtract 5

- **A.** x = 3y
- B. y = 3x
- C. y = 3

[Cairo - E. Nouzha 24]

- "y is four times x added to five 'represents -
- D. y = x

- A. x = 4y + 5
- B, v = 4x + 5
- C. x = 5y + 4
- [Beni Suef Samesta 24]
- 10. "Double of x added to 3 equals 13" as an equation is

[Cairo 24]

- A. 2x 3 = 13
- B. 2x + 3 = 13
- C. x 3 = 13
- **D.** x + 3 = 13

D. y = 5x + 4

- 11. In the equation: y = 6x 2, the variable y represents the

- number. (Cairo 24)

- A. input
- B. putput
- C. independent
- D. otherwise

- 12. If t = 5 r, then t is called
- variable.
- [El Beheira Kafr El Dawar 24]

- A. dependent
- B. independent

15. In the equation : y = x + 1, if the output is 1, then the input is

- C. constant
- D. otherwise

- 13. If  $y = 3 \times \text{and } x = 5$ , then y = -A. 3
  - **B**. 5

[Cairo - El Maadi 24] **D.** 15

- 14. In the equation: y = 2x + 4, if x = 5, then y =

[El Menia - Matay 24]

- B. 14

(ismailia 24)

- A. 0.
- **B**. 1

C. 2

D. 11

D. 29

**16.** (2, \_\_\_\_\_) satisfies the rule: y = x + 1

[Ismailia 24]

- A. 1
- B, 2

**C**. 3

**D**. 5

17. The ordered pair (5, \_\_\_\_\_ ) satisfies the equation : y = 2x + 3

- A. 16
- **B.** 13
- **C.** 10
- D. 28

18. If y = 7 + x, then (\_\_\_\_\_\_\_, 10) satisfies the equation.

[Cairo - New 24]

- A. 1
- **B**. 3

C. 2

D. 4

#### Complete the following.

1. The dependent variable in the equation : y = 3x is -

(Cairo - El Zaitoun 24)

2. The dependent variable in the algebraic equation: 3 m + 1 = n is

[El Monofia - Menof 24]

3. The dependent variable in the equation : a = b + 2 is –

(Ismailia 24)

4. In the equation : y = x + 1, the independent variable is \_\_\_\_\_\_

[Port Said 24]

5. The independent variable in the equation : x = 3 y is \_\_\_\_\_ [El Monofia - Shebin El Kom 24]

6. In the equation: l = 4 m - 3, the independent variable is

(Giza - Awseem 24)

The verbal phrase for the equation : y = 5 l is \_\_\_\_

[Giza 24]

8. The verbal phrase for: h + 12 = 19 is —

[El Menia - Matay 24]

9. "3 increased by t equals s" in equation is

[Ass ut 24]

10. If  $v = 8 \times \text{ and } x = 3$ , then y = -

[El Monofia - El Shohada 24]

11. If y = x - 2 and x = 7, then y = -

[El Monofia - El Sadaat 24]

12. In the equation: y = 3x + 1, if x = 4, then y would be

(Kafr El Sheikh - Bayala 24)

13. In the equation:  $y = \frac{1}{2}x + 3$ , if x = 6, then y would be

(El Monofia - Sers El Layan 24)

14. The ordered pair which satisfies the rule: y = x + 2 is (3,

[Beni Suef - Samesta 24]

15. (8, \_\_\_\_\_) satisfies the equation:  $y = \frac{1}{g}x + 3$ 

[El Menia - Mallawi 24]

The equation from the table is \_

(Cairo - El Nouzha 24)

X	0	4	8	12
y	4	8	12	16

#### 3. Answer the following questions.

1. if 
$$y = 2x + 7$$
; find the value of y for  $x = 4$ 

[Luxor 24]

2. If 
$$y = 2x + 1$$
, find the value of y for  $x = 5$ 

[Souhag 24]

- 3. Write an equation. Use the variables x and y, where x is the independent. Using the rule "Add 3", then substitute  $x = \frac{1}{2}$  to evaluate y. [El Kalyoubia 24]
- 4. Write an equation use the variables x and y, where x is the independent, write the equation "multiply by 8 and add 3", substitute  $x = \frac{1}{4}$  to evaluate y. [Giza Awseem 24]
- 5. The price of a piece of sweets is 5 pounds , the number of pieces is x and the total cost is y. Write the equation which represents the relation between x and y. [Kafr El Sheikh 24]
- 6. Complete the following table according to the equation: y = 3x + 2

[G za 24,

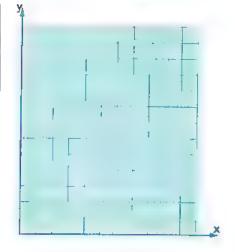
X	0	2	4	6
У			-	

7. Complete the following table, then represent it graphically:

The equation: y = x + 1

[Port Sald - East 24]

×	0	1	2
У			
(x,y)	(0,)	(1,)	(2,)



## UNIT 6

#### Choose the correct answer. 1. Which of the following is a statistical question? (Cairo - El Sahel 24) A. How old are you? **B.** Do you like the color red? C. What are the students favorite color in your class? D. What is the name of your school? [Cairo - New 24] The ———— is a numerical data. C. exam degree D. name B. place of birth A. nationality [Kafr El Sheikh 24] is one of the numerical data. D. favourite color C. weight B. nationality A. name (El Menia - Mallawi 24) is a categorical data. 4. The C. weight D. favourite color B. length A. age [El Monofia El Sadat 24] 5. The following data are numerical except the D. birth place. A. height. B. weight. C. age. [El Monofia | Sers El Lavan 24] The following data are descriptive data except the C. birth place. D. blood species. A. name. B. ade. 7. The best graph to represent the number of pupils whose height range from 150 - 160 (El Menia - Matay 24) is the \_\_ D. box plot B. bar graph. C. histogram. A. dot plot. \_\_\_\_\_ data is written in form of words. [Assiut 24] 8. The \_\_\_\_ C. mean D. histogram A. numerical B. categorical 9. Which display makes it easier to see the median? (El Beheira 24) D. Bar graph B. Box plot C. Dot plot A. Histogram is the middle value of the data set after arranging it. [El Beheira 24] 10. The \_\_\_\_\_ B. median C. mode D. range A. mean 11. The median of the values: 9,4,8,1 and 3 is — [El Fayoum - West 24]

**12.** The median for the set of data: 60,66,62,64,61,63 and 65 is

[Cairo - El Mostabal 24]

A. 62

A 4

B. 65

B 1

C. 61

D. 63

**D**. 3

**13.** The median for the set of values: 109, 90, 114, 120, 97, 104, 93, 98, 127 and 94 is \_\_\_\_\_

[El Menia - Matay 24]

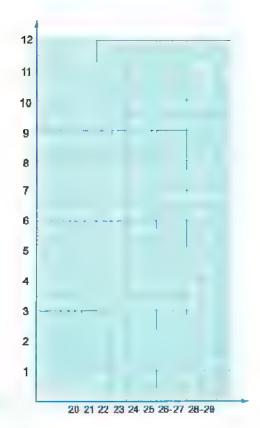
- A. 98
- **B.** 101
- **C**. 104
- **D.** 107

14.	The shape that:	shows the lower o	quartile is the ————	(Ca ro 24)
	A. histogram.	B. box plot.	C. dot plot.	D. other.
15.	The graph which	n is easier to repre	esent 5 number summer	y is the
				[Port Sald - East 24]
	A. box plot.	B. dot plot.	C. histogram.	D. bar graph.
16.	The lower quarti	ile for the set of da	ata: 72,64,77,61,79,6	3 , 76 , 75 and 60 is
				[Kafr El Shelkh - Bayala 24]
	<b>A.</b> 61	B. 62	<b>C</b> . 70	D. 76
17.	The upper quarti	le for the set of da	ata:100,101,103,97,98	999 and 102 is
				(Kafr El Sheikn - Bayala 24)
	<b>A.</b> 103	<b>B</b> . 102	<b>C.</b> 98	D. 100
18.	In the opposite b	oox plot:		
	, the upper quart	ile is	[Port Said 24]	30 35 40 45 50 60
	<b>A</b> . 30	<b>B</b> . 35	<b>C.</b> 50	<b>D.</b> 55
19.	From the opposi	te box plot :		
	The median is —	•	[Cairo 24] 0 2 4	6 8 10 12 14 16 18 20
	A. 2	B. 4	<b>C.</b> 8	D. 10
Co	mplete the follow	wing.		
1.	The types of stat	istical questions a	are ——— and ——	(E. Kalyoubia 24)
2.	The . s	shows the set of d	lata in form of intervals.	[El Beheira Kafr El Dawar 24]
3.	The median of th	e values:3,7,8	5 and 4 is	[Port Said - East 24]
			+2,k+3,k+4andk+!	
		70,700,711,711,711,711,711,711,711,711,7	· Z/K · J/K · Fulluk · .	
_	F1. ()			[Giza - October Garden 24]
			he following data set :	(Aswan 24)
	15 , 21 , 27 , 20 and	122 is ———		
6.	If the opposite bo	x plot shows the	aata for the	•
	•	of some students		20 25 30 35 40 45
1	quartile =		(Giza 24)	
7.	rom the followin	ig box plot:		
	The first quartile	is	9	10 11 12 13 14 15 16 17
			[Cairo 24]	

#### 3. Answer the following.

 The following table shows the recorded temperatures in 40 cities in one day.
 Draw the histogram of the following table.

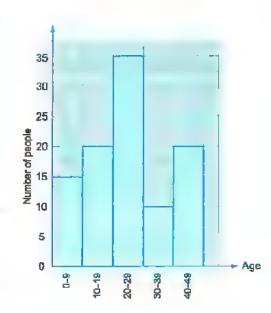
Interval temperature	Frequency of number of cities
20 - 21	8
22 - 23	12
24-25	9
26 - 27	7
28 - 29	4



[El Monofia - Sers El Layan 24]

# 2. From the opposite histogram answer each of the following:

- **A.** The number of people were surveyed is \_\_\_\_\_
- B. The frequency in age interval 10 19 is \_\_\_\_\_
- C. How many people are 30 years or older?
- D. How many people are younger than 20 years?

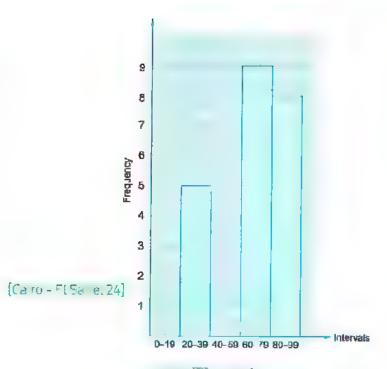


(Beni Suef - Samesta 24)

#### 3. Using the opposite histogram

- A. Complete the table.
- 3. Complete the graph.

Intervals	Frequency
0 - 19	3
20 - 39	
40 - 59	7
60 - 79	
80 - 99	8



4. From the opposite box plot:

- A. The median =
- B. The first quartile = ---
- C. The third quartile = ---
- D. The range = ———



(E. Monofia - El Sadat 24)

5. From the opposite box plot:

- A. The minimum value =
- B. The maximum value = ——
- C. Lower quartile Q1 = ---
- D. Upper quartile Q3 = ———



[Port Said - North 24]

[Et Beheire 24]

6. Draw the box plot for the following data:

- 5,7,2,1,2,10,3, then complete the following.
- A. Min. = ----
- B. Max. = -----
- C. Median = ----
- D. Q1 = \_\_\_\_
- E. Q3 = -



## on UNIT 7

#### 1. Choose the correct answer.

The mean = sum of the values -

the number of values.

[Port Said 24]

- B. -

C. x

D. ÷

2. The mean of the values: 6 and 4 is

[Alexandria - El Gamarek 24]

- A. 3
- B. 4

C. 6

D. 5

The mean of the values: 3,5 and 4 is -

[El Beneira 24]

- A. 12
- B. 5

C. 4

D. 3

4. The arithmatic mean of the values: 4,5,8 and 3 is

[Cairo El Salam 24]

- A. 20
- B. 4

C. 5

D. 6

5. The mean of the values: 3,5,4,7 and 6 is

[E. Menia - Deir Mawas 24]

- A. 7
- B. 3

C. 5

- D. 8
- 6. The mean of the numbers: 5,8,10,8 and 4 is

[Cairo 24]

- B. 7

**D**. 10

7. The mean of the values: 0,6,2,8,3 and 5 is

[Kafr El Sheikh 24]

[El Fayoum - West 24]

[Kafr El Sheikh 24]

(Calro 24)

- A. 4
- B. 5

C. 6

D. 24

- A. 6
- 8. The mean of the following set of data: 4,5,7,7,8,9 and 9 is -
  - **C.** 8

**D.** 9

- 9. If the mean of 8,6,x and 5 is 5,t then x = ---
- B. 7

- A. 0
- B. 1

C. 6

**D**, 3

10. If the mean of 3.7.4.6 and x is 5.7 then x = -

A. 2

**C.** 5

D. 9

- 11. The mean of the following values

[Giza - Awseem 24]

- A. 2
- **B**. 3

- C. 4
- D. 5
- 12. The balanced point of the set of data which represents the opposite dot p.ot is



- A. 5
- **B**. 3

C. 4

D. 2

13. From the opposite graph:

The balance point is



(El Beheira 24)

- A. 6
- **B**. 5

C. 4

D. 2

14. The balanced point of the set of data which represents the opposite dot pot is — [Cairo - El Sanel 24] A. 12 **B**. 13 C. 14 D. 15 15. The balance of the following data set 17,18,20,20,20,21,21,21 and 22 is = 10,18(Cairo - El Nouzha 24) A. 21 **B.** 17 C. 20 D. 22 **16.** The mode of the values: 9,0,1,7,0,4 and 0 is (Aswan 24) **B**. 1 D. 9 17. The mode of the values: 5,3,2,5,8 and 5 is [El Men a - Maghagha 24] B. 2 **18.** The mode of the set of data: 72,64,72,61,79,64,76,72 and 58 is \_\_\_\_\_\_\_ [Qena 24] A. 61 B. 60 C. 72 D. 79 19. If the mode of the numbers: 3.x - 1.7 and 9 is 7.1 then x =(Cairo - El Mostabal 24) A. 7 B. 8 C. 9 D. 6 20. The outlier of the data set: 11, 17, 2, 13 and 19 is [Beni Suef - Samesta 24] **B**. 13 D. 7 21. The outlier of the following values: 1,4,52,3 and 7 is (Souhag 24) A. 52 B. 1 C. 3 D. 7 22. In the opposite dot plot. the outlier is -[Cairo - New 24] C. 2 A. 0 B. 1 D. 9 23. Which is best to measure central tendency of the opposite data set? (Giza Bolak 24) A. Mean B. Median C. Either D. Lowor quartial 24. The better measure of central tendency of the opposite dot plot is the -[El Menia 24] B. median. C. either. A. mean. 25. Which is best to measure the central tendency if outlier value is available? [Cairo - El Zaitoun 24] A. Range B. Median D. Other C. Mean

26.	<ul> <li>= the largest value - the least value.</li> <li>A. The range</li> <li>B. The median</li> <li>C. The mode</li> </ul>			(Cairo	- El Ma	ddi 24)
A. The range				he mean		
27. The range of	the values : 5 , 9 , 10	,7 and 4 is		[£t	Kalyou	bia 24]
A. 5	B. 6	C. 7	<b>D</b> . 10	)		
28. From the opp	posite box plot :					
The range =			0 1	2 3 4	5 6	7
						7
<b>A</b> . 5	<b>B.</b> 6	C. 4	D. 2	nofia Ser	5 El Lay	an z#j
A. J	<b>D</b> , 0	C. 4	D. 2			
2. Complete the fo	ollowing.					
1. From the opp	posite dot plot :		4	:		-
	point is		1	2 3	4	5
	p 451 ( 1 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2				{Ass	iut 24]
2. The balance	point of		•	. :	*	*
tne opposite			2	3 4	5 Il Fayor	6 (m 24)
				(*	at ( by o	2111 2-7)
	3. The mean of the values which represents				į	
the opposite	dot plot is		5	6 7	8	9
				(Cairo -	El Nouz	ha 24]
4. From the opp	oosite dot plot :					·
The mean eq	•		-			
			10 1		3 14	15
			(Ke	afr El Sheik	h - Bay	ala 24]
5. From the opp					:	
The median i	S		10	20 30	40	50
				(Giza	- Awser	em 241
6. The mean of	the values : 6,7,12 a	ına 15 is		Alexnadra		
7. The mean of t	the values: 5,4,1,2	and 3 is		l Monofia		_
8. The mode of	the values : 7,9,7,8	3,7,6,7 and 10 is	_	(Port Sa		
		.,7,1and7is		Monofia -		
10. The values th	nat lie outside most (	of the other values in a s			_	
				(El Monofi	a - Mer	nof 24]
11. The outlier va	lue of the following	data set is				ut 24]
22,94,26,2	_					
12. The outlier va	alue of the following	data:91,94,93,4,90	, 99 is			
				Alexandra	a – Mide	ile 24]

13.	The range – the greatest value –	1	(A.exandria - El Montaza 24							
14.	The range of the numbers: 3,6,7,9 and 5 is								-	
	In the opposite box plot , [E. Beheira 24]	-			(Cairo - El Sa					
	The range =	1	2	3	4	5	6	7	8	
3. Ar	nswer the following.		_							
1.	From the following dot plot answer the following question	ns					[G <sub>1</sub> z	72 -	241	
	A. How many people saw 3 movies?								- 1,	
	B. How many people saw 2 movies or more?							_	_	
	Movies seen last month  0 1 2 3 4 5 6 7 8 9 10  Number of movies									
2.	The opposite box plot shows the data of some student. Complete.				[Max	fr El :	Shoil	lelo T	131	
	A. The median is				Įna	n Et	men	KF1.2	( <del>4</del> )	
	B. The range is	-	Ļ			-	-2			
3	Using the values : 40 , 5 , 39 , 50 and 51	0	1	2	3	4 5	6	7		
	A. The outlier is				[Ka	fr El S	Sheil	ch 2	4]	
	B. The mean is									
	Using the following set of data: 2,9,6,9,4,9 and 8 to fin  A. The range  B. The mode	d:					(Cair	ro 2	4]	

S. Comments of the comments of

# المراجمة رقورن)











## First term Questions Bank



#### Question 01

#### Choose the correct answer

1	Take away double	e the number	r m from 20 is wri	tten as	***************************************		
	20 - m	<b>b</b>	m – 20	C	2m – 20	<b>d</b>	20 – 2m
2	The volume of the	e cube of edg	ge length 4 cm is		.cm³		
	12 x 4	<b>(b)</b>	4+4+4	<b>©</b>	43	<b>d</b>	<b>3</b> <sup>4</sup>
3	3x3x3x3x3=						
	a 3×5	<b>(b)</b>	3+3+3+3+3	<b>©</b>	<b>3</b> <sup>5</sup>	<b>(d)</b>	5 <sup>3</sup>
4	3+3+3+3+3=	510001000001					
	(a) 3x5	<b>(b)</b>	3x3x3x3x3	0	<b>3</b> <sup>5</sup>	<b>d</b>	53
5	The value of the	expression 5	m ÷ 3 for m = 6 is		rapida to do dynas me		
	a 3	<b>(b)</b>	5	<b>©</b>	6	<b>d</b>	10
6	The first operatio	n you prefor	m in the expressio	n 6 + (5	$5^3 - 4) \div 2 \text{ is }.$		
	add add	<b>(b)</b>	Subtract	<b>©</b>	exponent	<b>d</b>	Divide
7	The first operatio	n you prefor	m in the expressio	n 6 + 5	$^3 - (4 \div 2)$ is	·	
	add add	<b>b</b>	Subtract	<b>©</b>	exponent	<b>(d)</b>	Divide
9	Seven cubed add	ed to six squ	ared equals	hart.			
	7x3+6x2	<b>(b)</b>	$6^2 + 7^3$	<b>©</b>	$6^2 - 7^3$	<b>d</b>	$2^6 + 3^7$
10	Rozana saved x p		ahmoud Elkholy g	ave hei	r <mark>20 pounds</mark> ,	then she	have
	X - 20	<b>(b)</b>	45	<b>©</b>	X + 20	<b>(d)</b>	20 x
(11)	If $x + 5 = 8$ , then 3	3x =					
	<b>a</b> 3	<b>(b)</b>	5	<b>©</b>	9	<b>(d)</b>	15
12	A number if adde	d to 5 the res	sult is 17 , then the	numbe	er is		
	12	<b>(b)</b>	22	<b>©</b>	5	<b>(d)</b>	17
13	is a solutio	n of the ineq	uality d > 15				
	(a) 15	<b>(b)</b>	12	<b>(c)</b>	20	<b>(1)</b>	All of them













14	********	is a solution of the	e ineq	uality d ≥ 15				
	<b>a</b>	15	<b>(b)</b>	16	<b>©</b>	20	<b>d</b>	All of them
15	The	mode of 7, 9 , 7, 8 , 7	, 6, 7 a	and 10 's				
	<b>a</b>	7	<b>b</b>	8	<b>©</b>	9	<b>d</b>	10
16	All th	ne dot plots have the	follo	wing characteristic	s exce	pt		
	<b>a</b>	dot plot should hav	e title	es	<b>b</b>	dot plots should h	ave da	ta graphed above a
	<b>©</b>	the number lines in c	lot ploi	s should start at 0	<b>d</b>			lata can be seen on ited by a dot.
17	Α	has two axes, horiz	zontal	and vertical.				
	<b>a</b>	bar graph	<b>b</b>	histogram	©	double bar graph	<b>d</b>	all of them
18	The	ques <mark>tion</mark> : what are t	he stu	udents favourite co	lours?	' Is a questi	on	
	<b>a</b>	statistical	<b>b</b>	non-statistical	<b>©</b>	numerical data	<b>d</b>	All of them
19	The	range = the greatest	value	the smallest v	alues	,		
	(1)	+	<b>(b)</b>	-	C	<u> </u>	<b>d</b>	×
20	The	<mark>best subset for the</mark> r	numbe	er 5 is				
	<b>a</b>	Counting numbers	<b>(b)</b>	Rational numbers	<b>©</b>	Integers	<b>d</b>	natural numbers
21	The	best subset f <mark>or t</mark> he r	numbe	er 5.2 is				
	<b>a</b>	Counting numbers	<b>(b)</b>	Rational numbers	<b>©</b>	Integers	<b>(1)</b>	natural numbers
22	The	Set of counting num	bers .	The set o	f ratio	nal numbers		
	(1)	Belong	<b>b</b>	not belong	<b>©</b>	subset	<b>d</b>	Not subset
23	The	Set of integers	**********	The set of natural n	umbe	ers		
	(1)	Belong	<b>(b)</b>	not belong	<b>©</b>	subset	<b>d</b>	Not subset
24)	-5	The set of	of ratio	onal numbers				
	<b>a</b>	Belong	<b>(b)</b>	not belong	<b>©</b>	subset	<b>d</b>	Not subset
25)	r is 9	times p added to tv	vice m	ın the equation is				
	<b>a</b>	r = 9 p + m	<b>(b)</b>	r = 2m + 9p	<b>©</b>	9 r = p + 2m	<b>d</b>	r + m = 9p









								۱. مصود مصید
26	In th	e equation : $y = x + 1$ ,	if the	output is 1, then th	e inpu	ıt is		
	<b>a</b>	1	<b>b</b>	3	<b>©</b>	2	<b>d</b>	0
27	The	order pair which sat	isfies	the rule: $y = 3x + 1$	is			
	<b>a</b>	(0,0)	<b>(b)</b>	(0, 4)	<b>©</b>	( – 1, 1)	<b>d</b>	(1,4)
28	whic	h of the following da	ate se	t hasn't any outlier	?			
	(1)	103,104,105,103,102	,17		<b>(b)</b>	24,25,26,21,22,2	23,204	•
	C	300, 309,302,303,	305,3	06,308	(6)	4,211,212,213,214	,215,10	000
29	Yous	ssef eat at least 3 ora	anges	, then Youssef may	y eat	oranges		
	(1)	3	<b>(b)</b>	5	<b>©</b>	12	(1)	All of them
30	Laya	n has <mark>25 pound</mark> s and	d May	a has more money	than I	ayan , then May	a may	haspounds .
	1	25	<b>(b)</b>	20	0	100	<b>d</b>	All of them
31		has 16 candies and candies .	Karee	m has less candies	than	Zyad , then Kare	em ma	ay has
	<b>a</b>	100	<b>b</b>	16	<b>©</b>	10	<b>d</b>	All of them
32		a bought 6 SPIRO SP boughtSPIR			ught s	ame number or	more .	then Mohamed
	<b>a</b>	6	<b>b</b>	12	<b>©</b>	100	<b>d</b>	All of them
33	All o	<mark>f the followin</mark> g are s	olutio	ns of inequality x ≤	-8 ex	cept		
	<b>a</b>	-8	<b>(b)</b>	-10	0	-7		All of them
34	In th	e equati <mark>on : 5x + 2 =</mark>	y, the	independent varia	ble is	601104104041040404		
	<b>a</b>	5	<b>(b)</b>	2	0	X	<b>d</b>	у
35	In th	e equation : b = $\frac{1}{2}$ f +	3,the	e dependent variab	le is	~ ~ ~ # # h m ~ m ~ m + # h		
	(1)			2	<b>©</b>	F		b
(36)	The	GCF of any two diffe	rent	orime numbers is				
	<b>a</b>	0	<b>b</b>	1	•	itself	<b>d</b>	The smallest number
37	$\frac{3}{6} + \frac{1}{2}$							
	<b>a</b>	$\frac{1}{2}$	<b>(b)</b>	3 6	<b>©</b>	1	<b>d</b>	4 8
38		ch of the following is	an ed					δ
	<b>a</b>	3n + 7	<b>b</b>	7 times the number h	<b>©</b>	3 c = 3	<b>d</b>	6e-7











				حمود سعید 🗸
39)	[2, m] satisfies the	rule $y = 3x - 2$ , then m	=	
	1	<b>b</b> 2	© 3	<b>d</b> 4
40	In the equation : y = 2	2x + 10 , the ordered pair	(3, n) satisfies the equ	vation , then n =
	② 2	<b>b</b> 10	<b>©</b> 16	<b>d</b> 30
41	" Y is 6 times h added	to 12 " in equation is	***********	
	(a) $12 = y + 6h$	Y = 12 h + 6	H = 6y +12	<b>a</b> $Y = 6 h + 12$
42	[ ] is called I	he origin .		
	(1,1)	<b>(0,1)</b>	© [0,0]	<b>(1,0)</b>
43	The greatest negative	e integer is		
	a 1	<b>b</b> -1	<b>©</b> 0	-1000,000
44	$\frac{3}{7} + \frac{2}{5} = \dots$			
	a 5/12	<b>b</b> $\frac{29}{35}$	$\bigcirc$ $\frac{1}{2}$	<b>d</b> 1
47	$3(5+4)=(3\times)$		Le	
	<ul><li>5,3</li></ul>	<b>b</b> 5,4	<b>3</b> ,5	<b>d</b> 3,4
48	In the equation the :	y = 2x + 3, the ordered p	pair (2, a) satisfies the eq	uation then, a =
	5	<b>b</b> 8	© 7	<b>d</b> 9
49	The median of the va	lue 4, 7, 8, 1 and 3 is		
	3	<b>(b)</b> 1	© 4	<b>d</b> 7
50	The median of B + 1, I	B+2, B+3 is 10, then B		
	(a) 1	<b>b</b> 3	© 2	<b>d</b> 8
51			+2, m +3, m +4, k+5, v	vhere m is a positive
	integer is 16.5, then n	(b) 8	© 12	<b>d</b> 10
(52)	All the following are	numerical data except		
	a names	<b>b</b> ages	© length	d temperatures
(53)	The opposite of the r		_ •	
	<ul><li>15</li></ul>	<b>(b)</b> [15]	<b>©</b> -15	<b>d</b> I-15 I
(54)	The additive inverse	of I - 41 is		_

141

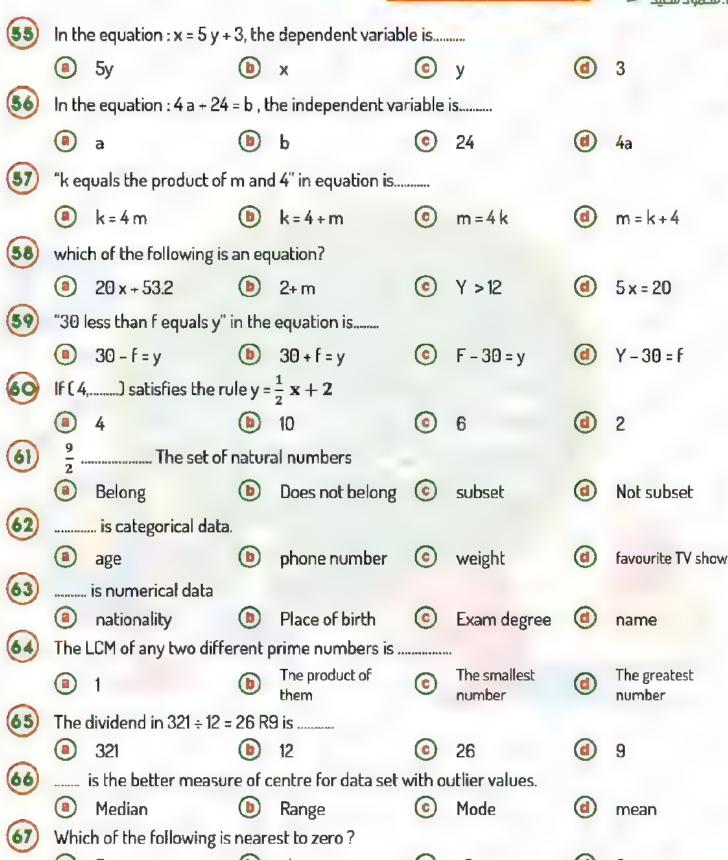




|-4|











Counting numbers

The best subset for the number 0 is \_\_\_\_\_

(b) Rational numbers

(¢)

Integers



natural numbers

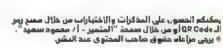




69	Whic	ch of the following is	the g	reatest number?				
	<b>a</b>	-5.3	<b>(b)</b>	-3.5	<b>c</b>	3.5	<b>d</b>	5.3
70	Whic	ch of the following is	the s	mallest number?				
	(1)	-3.2	<b>(b)</b>	-2.3	<b>©</b>	-0.5	<b>(d)</b>	-0.01
71	The	best subset for the n	umbe	er -3 is				
	(1)	Counting numbers	<b>(b)</b>	Rational numbers	<b>©</b>	Integers	<b>d</b>	natural numbers
72	The	range can not be fou	ind us	ing				
	(1)	dot plot	<b>(b)</b>	histogram	<b>©</b>	box plot	(1)	all of them
(73)	If the	e mean <mark>of 8, 6, x, 5</mark> is	5, the	en x =				
	(1)	1	<b>(b)</b>	2	0	3	<b>d</b>	4
74	The	mea <mark>n of</mark> the values "	54, 32	2, 30 ,4"is	_			
	(1)	18	<b>b</b>	30	<b>©</b>	4	(1)	54
(75)	The	LC <mark>M of 5</mark> and 15 is		bed .				
	(3)	5	<b>(b)</b>	15	0	1	(1)	3
(76)	The	GCF of 5 and 15 is						
	(1)	5	<b>(b)</b>	15	(c)	1	(1)	3
(77)	The	<mark>common factor of al</mark>	l num	ber is				
	(1)	0	<b>(p)</b>	1	(c)	2		100
(78)	If the	cost of one ticket "h"	and th	ne total cost of 5 tick	ets "m	",Then the indep	enden	variable is
	(1)	m	<b>(b)</b>	h	<b>©</b>	5		5h
<b>79</b>	If the	e cost <mark>of one</mark> ticket "l	h", th	en total cost of 5 ti	ckets	is		
	<b>a</b>	m	<b>(b)</b>	h	<b>(c)</b>	5		5h
80	The	order pair which sati	sfies	the equation : y = x	+2		_	
		(0, 2)	<b>(b)</b>	(1, 1)	<b>©</b>	[2,1]		(1, 2)
(81)	Whic	ch of the following is	nume	erical expression?				
	(1)	3(6d + 5)	<b>(b)</b>	8+6	<b>©</b>	2n - 9	<b>(1)</b>	4 – h
<b>82</b>	Whic	ch of the following is	algeb	raic expression?	_		_	
	(1)	4(6+5)	<b>b</b>	4-1+2	<b>©</b>	20 ÷ 9	<b>(1)</b>	3h
83	The	integer which comes	_	after -1 is				
		n		1		_2	(d)	_1











							حے عتوس ع
84	The integer that is one le	ss tha	an 0 is				
	a	<b>(b)</b>	1	<b>©</b>	-2	<b>d</b>	-1
85	All counting numbers are	e also	& b L () 2444 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2				
	<ul><li>natural numbers</li></ul>	<b>(b)</b>	Rational numbers	<b>©</b>	Integers	<b>d</b>	All of them
86	- 10   >						
	[a] [-9.99]	<b>(b)</b>	1-901	<b>©</b>	1-1001	<b>(d)</b>	I - 15 I
87	5(8+) x 7 is a nume	rical e	expression.				
	a d	<b>(b)</b>	4F	C	5	<b>(d)</b>	19 + n
88	5(8+) x 7 is a algebra	aic ex	pression.				
	6	<b>b</b>	5m	<b>©</b>	18 + 2	<b>d</b>	13
89	Adding 5 to third a numb	er =					
	5 + 3x	<b>(b)</b>	3x + 5	<b>©</b>	$\frac{1}{3}x-5$	<b>d</b>	$\frac{1}{3} \times +5$
90	The distance between -6	and	its opposite on the	numb	er line is	**	
	6	<b>(b)</b>	-6	<b>©</b>	12	<b>d</b>	-12
91	-15   = m , then m =	*****					
	<b>a</b> -15	<b>b</b>	15	<b>©</b>	Both a,b	<b>d</b>	neither
92	-x =5, then x =						
	a -5	<b>(b)</b>	5	0	Both a,b	<b>d</b>	neither
93	The number of terms in	the ex	pression 6d+2-	5 n ÷	4 isterms	5	
	(a) 1	<b>(b)</b>	2	0	3	<b>d</b>	4
94	The like terms in the exp	ressio	on 2f+2-2k-8	is	<b>♦</b> 4841 <b>♦</b>		
	2f, 2k	<b>(b)</b>	2,8	<b>©</b>	2,2k	<b>d</b>	2f,2
95	The constant in the expr	essior	6d+2-5n is				
	6	<b>(b)</b>	d	C	5n	<b>d</b>	2
96	The coefficient in the exp	pressi	on 6d+2is	H4			
	6	<b>(b)</b>	d	C	6d	<b>d</b>	2
97	The balance (mean) of th	ne foll	owing date set 1, 2	,3,4	, 4 ,6 , 8 is		
	2	<b>b</b>	6	0	4	<b>d</b>	8
98	is another nar	ne fo	r the mean .				

Range





Median

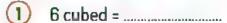
Mode

Average



#### Question 02

#### Complete



$$5^2 + 6 - 2^3 = \dots$$

- If the number of chicken owned is "t" and the number of eggs collected daily is "h", then the independent variable is ......
- The lower quartile for the set of data : 5, 7, 9, 10, 12, 15, 20 is.......
- 6 The graph shows gaps and cluster is ......
- The graph shows distribution and spread is ......
- The upper quartile of the values "7, 1, 6, 2, 3, 1, 9" is......
- The median of the values "2, 7, 10, 0, 2, 5, 6, 6, 12, 1" is......
- If the upper quartile of the values: x + 14, x + 10, x + 12, x + 15, x + 16, x + 11, x + 14, x + 17 where x = 10 is a positive integer is 18.5, then x = 10
- 11) 5x = 20, then  $\frac{1}{2}x = \dots$
- 120 x = 0, then 12 x = .....
- 13) 100 x = 100, then 12 x = .....
- $\frac{x}{5} = 6$ , then  $x = \frac{x}{5}$
- 15 3 n = 15, then  $n = \frac{1}{2}$
- 16 X + 5.4 = 7.8, then x = .....
- $7 \times = 28$ , then  $\frac{1}{2} \times = \dots$
- 18 "F equals the product of m and 6" as an equation is .....
- The inequality that represent the negative integers is ......
- we use......to see exactly how many times each individual values occurs.
- The inequality that represent the positive integers is .....
- The smallest natural number is .....
- 23 The inequality that represent the non-negative integers is ......
- The inequality that represent the non-positive integers is ......





- The graph shows the 5-number summary is .....
- The graph shows the set of data in form of intervals is .....
- 28 " m = 5d 5 " as an verbal is .....
- In the equation :  $d = \frac{5}{9}n 8$  the dependent variable is .....
- 30 The verbal phrase for k + 10 = 12 is \_\_\_\_\_\_
- (31) "20 more than v equals m " in equation is .....
- The rule is "multiply by 8". if  $x = \frac{1}{4}$ , then y would be .....
- 4 more than s equals t in equation is ......
- The word phrase for the equation "h = 8 g " is ......
- 36 In the rule: y = 4x, if x = 1.5 then  $y = \cdots ... ... ...$
- The verbal phrase for : 2 m + 4 = 8 is .....
- $38 \quad 5 3\frac{2}{5} = \dots$
- "z equals the sum of adding 12 to the product of 4 and y" the equation is ......
- The dependent variable in the equation  $a = 4 b + \frac{1}{2}$  is.....
- \_\_\_\_ maximum value minimum value
- The maximum values for the set of values "4,7,9,1,6" is.....
- The favourite colours of a number of pupils are......data.
- If the mean of 5 values is 15, then the sum of these values is......
- If the marks of 6 pupils in one of the tests are 29, 33,57,40,36 and 49, then the range for these marks is equal to......
- The number of integers between -5 and -1 are ......
- The smallest counting number is .....
- The value of the expression  $2x^2 (2x3 + 3^2)$  for x = 3 is ......
- If the price of one pen is 6 pounds, then the price of x pens is ......
- If the price of 10 pens is x pounds, then the price of one pen is ......
- In 54 the base is .....and the exponent is .....





<b>52</b>	The base is 8 and the exponent is 3 , then the exponential form of this is
53	In a square the side length is x then the perimeter is and the area is
54	are the values that lie away the other values.
55	is the middle values of the data set.
56	The additive inverse of -6 is
<b>57</b>	The additive inverse of 0 is
58	The LCM of 5 and 7 is
59 60	If 50 is the greatest number of data set and the range = 10 ,then
61)	The smallest number of this data set equals  The number -2.5 in the form $\frac{a}{b}$ is
62	The opposite of the number 50 is
63	The integer which comes just before -9 is
64	The GCF of 5 and 7 is
65	The outlier of the following date set 91, 94, 93, 3, 90, 99 is
66	The mode of the following set "3,4, 5,3,5,7,5,9,5,3" is
67	The range of the set of values 6, 5, 9,4,11,3, 7 is
69	If the sum of a group of values is 18 and the mean of these values is 3, then the number of these values is
70	The smallest positive integer is
1	The smallest non-negative integer is
72	The greatest non-positive integer is
73	type of data is or or
74	What is your favourite school subject? is question.  The GCF of 8 and 9 is
76	The LCM of 8 and 9 is
(77)	00% - 2% -







78	is a r	nultiple of	all numl	nore
(40)	IS a r	noiribie di	ali nomi	oers.

#### **Ouestion 03**

#### Answer the following questions

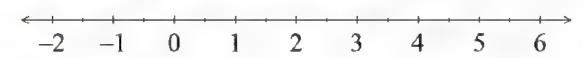
Simplify the following:  $11.6^2 + 2(24-9) \div 3$ 

$$2)8-4\times6\div(5-3)^3$$

- Mohamed has x pounds . he bought a book for 60 pounds . write the algebraic expression of how much money with him now .
- 3 Represent  $-2\frac{2}{5}$  on the number line.

$$-3$$
  $-2$   $-1$  0 1 2 3

Represent  $5 \ge x$  on the number line in the set of integers.





Write an equation. Use the variables x and y ,where x is the independent variable.

Write the equation " add 1 and multiply by 2" and substitute x by 1,2,3 and 4 to evaluate y . then complete the table ,then represent the table on a graph .



Equation	D =	*****

Х	1	2	3	4
у		4044044		*****

6 Write a verbal phrase for each of the following:

a) f + 10 = m b) b = 5 - k c) 2n + 8 = a

Complete the following table according to the equation: y = 3x - 1

X	1	3	5	7
У	-E'42D4D44	*******		****

- Masa needed to earn at least 100 pounds daily to buy a mobile . find four possible amounts that Masa needed to earn ,then write the inequality that represented this situation .
- Joudy paid 3,888 pounds to buy 24 candies . find the price of each box .
- Find three rational numbers between 3.5 and 3.6
- Write an equation, use the variables x and y, where x is the independent and using the rule "multiply by 8", then substitute  $x = \frac{1}{2}$  to evaluate y .



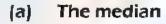
- Write each the verbal phrase as an algebraic equation:
  - (a) m equals twice n increased by 20
  - (b) y equals the product of eight and x added to 48
- (13) When m = 3. solve  $9 + (m^2 3) \div 2$
- Rodina has 30 pounds, she will save 10 pounds daily, write the algebraic expression, then evaluate how much money will she have after 1 week?
- Write a verbal phrase for each of the following equation:

a) 
$$y = 3x + 1$$

b) 
$$y + 5 = x$$

c) 
$$g = (h \div 3) + 12$$

- Write an equation, use the variables x and y where x is the independent variable, then evaluate y
  - a) The equation " multiply by 6", substitute if x = 7
  - b) The equation "multiply by 2 and add 3", substitute if x = 2
- By using the opposite dot plot find :



- (b) The mode
- (c) The range



If the number of goals registered by Al Zamalek in 6 matches are 3, 2, 6, 6, 1, 6

Calculated the mean, median and mode of the number of goals.

Rahma runs 3 km on Saturday, 5 km Sunday, 4 km Monday 4 km Tuesday and 4 km Friday

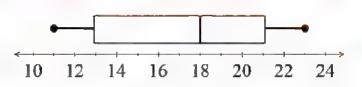
Find the mean distance covered by Rahma.



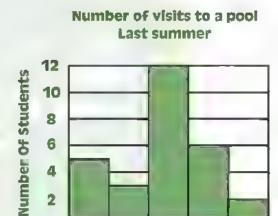




- from the opposite box plot, complete
  - (a) The maximum value = .......
  - (b) The minimum value = ........
  - (c) the median = .....
  - (d) the lower quarter = .....
  - (e) the upper quarter = .....



- Solve each of the following equations:
  - (a)  $\frac{x}{4} = 3$
  - (b) 12x-5=7
- from the histogram shown at the right answer the following questions.
  - 1. Which interval represents the most number of students?
  - 2. Which interval has three students?
  - 3. How many students went to a pool at least 30 times last summer?
  - 4. How many students went to a pool less than ten times last summer?



**Number Of visits** 

20.29

تم بحمد الله ،

بسم الله الرحمن الرحيم " إِنَّ الَّذِينَ آمَنُوا وَعَمِلُوا الصَّالِحَاتِ إِنَّا لَا نُضِيعُ أَخَرَ مَنْ أَحْسَنَ عَمَلًا" صدق الله العظيم

## **Answers**





## First term Questions Bank



	Question 01	Choose the correct answer					)	
1	Take away double the number m from 20 is written as							
	20 - m	<b>b</b>	m – 20	C	2m - 20	<b>d</b>	<u>20 – 2m</u>	
2	The volume of the cube of edge length 4 cm iscm <sup>3</sup>							
	12 x 4	<b>(b)</b>	4+4+4	0	<u>4</u> 3	<b>d</b>	34	
(3)	3x3x3x3x3 =							
	3x5	<b>(b)</b>	3+3+3+3+3	<b>(c)</b>	<u>3</u> 5	<b>d</b>	<b>5</b> <sup>3</sup>	
4	3+3+3+3=							
	(a) 3x5	<b>(b)</b>	3x3x3x3x3	0	<b>3</b> <sup>5</sup>	<b>d</b>	<b>5</b> <sup>3</sup>	
5	The value of the expression 5 m ÷ 3 for m = 6 is							
	a 3	<b>(b)</b>	5	<b>©</b>	6	<b>d</b>	<u>10</u>	
6	The first operation	The first operation you preform in the expression $6 + (5^3 - 4) \div 2$ is						
	add	<b>b</b>	Subtract	C	<u>exponent</u>	<b>d</b>	Divide	
7	The first operation	The first operation you preform in the expression $6 + 5^3 - (4 \div 2)$ is						
	add add	<b>(b)</b>	Subtract	C	exponent	<b>d</b>	<u>Divide</u>	
9	Seven cubed added to six squared equals							
	97x3+6x2	<b>(b)</b>	$6^2 + 7^3$	<b>©</b>	$6^2 - 7^3$	<b>d</b>	$2^6 + 3^7$	
10	Rozana saved x pounds. Mr Mahmoud Elkholy gave her 20 pounds, then she have							
	<ul><li>pounds nov</li><li>X - 20</li></ul>		45		X + 20		20 x	
	If x + 5 = 8, then 3		T-5		X+20		LUX	
W	(a) 3		5	<b>(c)</b>	9	<b>(d)</b>	15	
(12)	A number if added to 5 the result is 17, then the number is						J	
	12	ia to 5 the re	22	COTTON	5	<b>(d)</b>	17	
(13)		on of the inec			3		17	

**(b)** 12





15

All of them





(14)	********	is a solution of the	e ineq	uality d ≥ 15				
	<b>a</b>	15	<b>(b)</b>	16	0	20	<b>d</b>	All of them
15	The	mode of 7, 9 , 7, 8 , 7	6,7	and 10 's				
	<b>a</b>	<u>7</u>	<b>(b)</b>	8	<b>©</b>	9	<b>d</b>	10
(16)	All th	ne dot plots have the	follo	wing characteristic	s exce	pt		
	<b>a</b>	dot plot should have	e title	es	<b>b</b>	dot plots should h	ave da	ta graphed above a
	<b>©</b>	the number lines in c	lot plo	ts should start at 0	<b>d</b>			lata can be seen on ited by a dot.
17	A has two axes, horizontal and vertical.							
	<b>a</b>	bar graph	b	histogram	C	double bar graph	<b>d</b>	all of them
18	The question : what are the students favourite colours? Is a question							
	<b>a</b>	<u>statistical</u>	<b>b</b>	non-statistical	<b>©</b>	numerical data	<b>d</b>	All of them
(19)	The	range = the greatest	value	the smallest v	alues.			
	(1)	+	<b>(b)</b>	-	C	<u>b.</u>	<b>(1)</b>	×
20	The	<mark>be</mark> st subset for the r	numbe	er 5 is				
	<b>a</b>	Counting numbers	<b>b</b>	Rational numbers	<b>©</b>	Integers	<b>d</b>	natural numbers
21)	The	best su <mark>bset for th</mark> e r	numb	er 5.2 is				
	<b>a</b>	Counting numbers	<b>(b)</b>	Rational numbers	<b>©</b>	Integers	<b>(1)</b>	natural numbers
22	The	Set of <mark>counti</mark> ng num	bers .	The set o	f ratio	nal numbers		
	<b>a</b>	Belong	<b>(b)</b>	not belong	<b>©</b>	subset	<b>d</b>	Not subset
23	The	Set of integers	M 1001010140	The set of natural n	umbe	ers		
	(8)	Belong	<b>(b)</b>	not belong	<b>©</b>	subset	<b>d</b>	Not subset
24	-5	The set o	of ratio	onal numbers				
	<b>a</b>	Belong	<b>b</b>	not belong	<b>©</b>	subset	<b>d</b>	Not subset
<b>(25)</b>	r is 9	times p added to tv	vice m	n in the equation is	1170014			
	<b>a</b>	r = 9p + m	<b>(b)</b>	r = 2m + 9p	<b>©</b>	9r = p + 2m	<b>d</b>	r + m = 9p











								ا. مصورد معید
26	In th	e equation : $y = x + 1$ ,	if the	output is 1, then th	e inpu	ıt is		
	<b>a</b>	1	<b>b</b>	3	<b>©</b>	2	<b>d</b>	<u>0</u>
27	The	order pair which sati	sfies	the rule: $y = 3x + 1$	is			
	<b>a</b>	(0,0)	<b>(b)</b>	(0, 4)	C	[ - 1, 1]	<b>d</b>	<u>(1, 4)</u>
28	whic	h of the following da	ite se	t hasn't any outlier	?			
	(1)	103,104,105,103,102,	17		<b>b</b>	24,25,26,21,22,2	23,204	•
	<b>©</b>	300, 309,302,303,	<u>305,3</u>	06,308	<b>(d)</b>	4,211,212,213,214	,215,10	00
29	Yous	ssef eat at l <mark>east 3 o</mark> ra	nges	, then Youssef may	/ eat	oranges		
	(1)	3	<b>(b)</b>	5	<b>©</b>	12	<b>a</b>	All of them
30	Laya	n has <mark>25 pound</mark> s and	May	a has more money	than L	ayan , then Maya	a may	haspounds .
	<b>a</b>	25	<b>b</b>	20	<b>©</b>	<u>100</u>	<b>d</b>	All of them
(31)	-	has 16 candies and I	Karee	m has less candies	than ?	Zyad , then Karee	e <mark>m m</mark> a	ay has
	(a)	candies . 100	<b>(b)</b>	16	<b>(</b>	10		All of them
60		a bought 6 SPIRO SP	ATHIS		ught s		more,	
32		bought SPIR			_			
	(1)	6	<b>(b)</b>	12	<b>©</b>	100		All of them
33	Allo	<mark>f the</mark> foll <mark>owin</mark> g are so	olutio	ns of inequality x ≤	-8 exc	cept		
	(1)	-8	<b>(b)</b>	-10	0	-7		All of them
(34)	_	e equation: 5x + 2 =	y, the	independent varia	_	>>18048048049494		
	(1)	5	<b>(b)</b>	2		X	(1)	у
35		e equation : b = $\frac{1}{2}$ f +			e is		_	
	(1)	5		2	(c)	F		<u>b</u>
36	The	GCF of any two diffe	rent p	orime numbers is				<b>-</b> 1 11 .
	(1)	0	<b>(b)</b>	1	•	itself	<b>(d)</b>	The smallest number
(37)	3 1	Baccassassassas						Hombel
	_			3				4
		$\frac{1}{2}$	•	3 6	(c)	1		8
(38)	Whic	ch of the following is	an ed	ivation?				

7 times the number h



3n+7





6e-7

#### Math





								بمود سعید رسا
39	[2,n	n ) satisfies the rule	y = 3	x - 2 , then m =				
	<b>a</b>	1	<b>b</b>	2	<b>©</b>	3	<b>(b)</b>	4
40	In the	equation: $y = 2x + 1$	<b>0</b> , the	e ordered pair (3,	n ) sat	isfies the equation	n , th	en n =
	(1)	2	<b>b</b>	10	<b>©</b>	<u>16</u>	<b>(d)</b>	30
41)	"Yis	6 times h added to 1	2 " in	equation is				
	<b>a</b>	12 = y + 6h	b	Y = 12 h + 6	<b>©</b>	H = 6y +12	<b>d</b>	$\underline{Y = 6 h + 12}$
42)	<b>[</b>	,) is called the o	rigin .					
	<b>a</b>	[1,1]	<b>(b)</b>	(0,1)	<b>©</b>	[0,0]	<b>d</b>	(1,0)
43	The g	reates <mark>t negative</mark> int	eger i	5				
	<b>a</b>	1	<b>b</b>	<u>-1</u>	<b>©</b>	0	<b>d</b>	-1000,000
44	$\frac{3}{7} + \frac{2}{5}$	=						
	(a)	_	<b>b</b>	<del>29</del> <del>35</del>	<b>©</b>	1/2	<b>d</b>	1
47		4)=(3x)+[						
	<b>a</b>	<u>5,3</u>	<b>(b)</b>	5,4	0	3,5	<b>d</b>	3,4
48	In the	equation the : y = 2	x + 3,	the ordered pair (2	., a) sa	tisfies the equat	ion the	en, a =
	<b>a</b>	5	<b>b</b>	8	<b>©</b>	7	<b>d</b>	9
49	Them	nedian of the value	4, 7, 8	, 1 and 3 is				
	<b>a</b>	3	<b>b</b>	1	0	4	<b>(1)</b>	7
50	The m	nedian of B + 1, B + 2	B+3	3 is 10, then B				
	<b>a</b>	1	<b>(b)</b>	3	<b>©</b>	2	<b>d</b>	8
<b>51</b>		upper quartile of th		ues : m + 1, m + 2, m	+3, n	n + <mark>4 , k + 5</mark> , whe	re m i	s a positive
		er is 16.5, then m =	<u> </u>	0		40		10
		7	•	8	<b>O</b>	<u>12</u>		10
(52)	All the	e following are num	erical	data except				

a names

ages

length

temperatures

The opposite of the number 15 is .....

(a) 15

| 15 |

<u>-15</u>

| -15 |

The additive inverse of | - 4| is ......

141

1-41









					- Division of			محمود سعيد
55	In th	ne equation : x = 5 y +	- 3, the	e dependent variab	le is	****		
	(8)	5y	<b>b</b>	<u>x</u>	<b>©</b>	у	<b>d</b>	3
56	In th	ne equation : 4 a + 24	= b , t	he independent va	riable	İS		
	(8)	<u>a</u>	<b>(b)</b>	b	<b>©</b>	24	<b>d</b>	4a
57	"ke	quals the product of	m an	d 4" in equation is	1.0-11.00.00.00.00.00.00.00.00.00.00.00.00.0			
	<b>a</b>	<u>k = 4 m</u>	<b>b</b>	k = 4 + m	<b>©</b>	m = 4 k	<b>d</b>	m = k + 4
58	whi	ch of the following is	an eq	uation?				
	<b>a</b>	20 x + 53.2	<b>(b)</b>	2+ m	<b>©</b>	Y > 12	<b>d</b>	5 x = 20
59	"30	less than f equals y"	in the	equation is				
	<b>a</b>	30 – f = y	<b>(b)</b>	30 + f = y	<b>©</b>	F - 30 = y	<b>d</b>	Y - 30 = f
60	IF C	i,) satisfies the ru	ıle y =	$\frac{1}{2}x + 2$				
	<b>(a)</b>	4	<b>(b)</b>	10	<b>©</b>	6	<b>d</b>	2
61	9 2	The set of	natur	al numbers				
	(1)	Belong	<b>b</b>	Does not belong	<b>©</b>	subset	<b>d</b>	Not subset
62		is categorical data	l.					
	<b>a</b>	age	<b>b</b>	phone number	<b>©</b>	weight	<b>d</b>	favourite TV show
63	******	is numerical data						
	<b>a</b>	nationality	<b>(b)</b>	Place of birth	<b>©</b>	Exam degree	(1)	name
04)	The	LCM of any two diffe	erent <sub> </sub>					<del>-</del>
	(1)	1	<b>b</b>	The product of them	<b>©</b>	The smallest number	<b>(d)</b>	The greatest number
65	The	dividend in 321 ÷ 12 :	26 R	9 is				
	<b>a</b>	<u>321</u>	<b>b</b>	12	<b>©</b>	26	<b>d</b>	9
66		is the better measu	re of a	centre for data set	with o	utlier values.		
	(1)	<u>Median</u>	<b>(b)</b>	Range	<b>©</b>	Mode	<b>a</b>	mean
<b>(67)</b>	Whi	ch of the following is	near	est to zero?				
	(8)	5	<b>b</b>	<u>-1</u>	<b>©</b>	-3	<b>d</b>	3
68	The	best subset for the r	numb	er 0 is	_			
	(1)	Counting numbers	<b>b</b>	Rational numbers	<b>©</b>	Integers		natural numbers





# Math



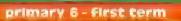


69	Whic	ch of the following is	the g	reatest number?				
	<b>a</b>	-5.3	<b>(b)</b>	-3.5	<b>©</b>	3.5	<b>(1)</b>	5.3
70	Whic	ch of the following is	the s	mallest number?				
	<b>a</b>	<u>-3.2</u>	<b>(b)</b>	-2.3	<b>©</b>	-0.5	<b>d</b>	-0.01
71	The	best subset for the r	iumbe	er -3 is				
	<b>a</b>	Counting numbers	<b>b</b>	Rational numbers	<b>©</b>	<u>Integers</u>	<b>d</b>	natural numbers
72	The	range can not be fou	ind us	ing				
	(1)	dot plot	<b>(b)</b>	histogram	<b>©</b>	box plot	<b>(d)</b>	all of them
73	If the	e mean <mark>of 8, 6, x</mark> , 5 is	5, the	en <b>x</b> = ,				
	(1)	1	<b>b</b>	2	<b>©</b>	3	<b>d</b>	4
74	The	me <mark>an of</mark> the values "	54, 32	2, 30 ,4"is				
	<b>(a)</b>	18	<b>(b)</b>	<u>30</u>	<b>©</b>	4	<b>(1)</b>	54
<b>(75)</b>	The	L <mark>CM of 5</mark> and 15 is	**********	ved d				
	(3)	5	<b>(b)</b>	<u>15</u>	0	1	<b>d</b>	3
(76)	The	GCF of 5 and 15 is		,,				
	(1)	<u>5</u>	<b>(b)</b>	15	<b>©</b>	1	<b>d</b>	3
(77)	The	<mark>common factor of al</mark>	l num	ber is				
	(1)	0	<b>(b)</b>	1	<b>©</b>	2	<b>(1)</b>	100
(78)	If the	cost of one ticket "h"	and th	ne total cost of 5 tick	ets "m	Then the indep	endenl	variable is
	<b>a</b>	m	<b>b</b>	<u>h</u>	<b>©</b>	5		5 h
<b>79</b>	If the	e cost of one ticket "	h", th	en total cost of 5 ti	ckets	is		
	<b>a</b>	m	<b>(b)</b>	h	(0)	5		5h
80	The	order pair which sati	sfies I	the equation : y = x	+2			
		<u>(0, 2)</u>	<b>(b)</b>	(1, 1)	<b>©</b>	[2,1]		(1, 2)
(81)	Whic	ch of the following is	nume	erical expression?				
	(1)	3(6d + 5)	<b>(b)</b>	8+6	<b>©</b>	2n ~ 9		4-h
<b>82</b>	Whic	ch of the following is	algeb	raic expression?				
	(1)	4(6+5)	<b>b</b>	4-1+2	<b>c</b>	20 ÷ 9	<b>d</b>	<u>3h</u>
83	Thei	integer which comes	just a	after -1 is	_			
	/-	C)	(-)	4			(41)	4





### Math





84	The integer that is one le	ess th	an 0 is				
	0	<b>(b)</b>	1	<b>©</b>	-2	<b>d</b>	-1
85	All counting numbers ar	e also	#2102644BBAH449464E95E4				
	a natural numbers	<b>b</b>	Rational numbers	<b>©</b>	Integers	<b>d</b>	All of them
86	l - 10 l >						
	<u>I - 9.99 I</u>	<b>(b)</b>	1-901	<b>©</b>	1-1001	<b>d</b>	1 - 15
87	5(8+) x 7 is a nume	rical e	expression .				
	a d	<b>(b)</b>	4F	C	<u>5</u>	<b>d</b>	19 + n
88	5(8+) x 7 is a algeb	raic ex	cpression.				
	5	<b>(b)</b>	<u>5m</u>	<b>©</b>	18 + 2	<b>d</b>	13
89	Adding 5 to third a numb	oer=.	**************************************				
	5 + 3x	<b>(b)</b>	3x + 5	<b>©</b>	$\frac{1}{3}x - 5$	<b>d</b>	$\frac{1}{3}x + 5$
90	The distance between -6	and	its opposite on the	numb	er line is	**	
	6	<b>b</b>	-6	<b>©</b>	12	<b>d</b>	-12
91	1-15   = m , then m =	**********					
	a -15	<b>b</b>	15	<b>©</b>	Both a,b	<b>d</b>	neither
92	-x   = 5 , then x =	1 4 10 10 10 10					
	a -5	<b>(b)</b>	5	0	Both a,b	<b>d</b>	neither
93	The number of terms in	the e	xpression 6d+2-	5 n ÷	4 isterms	s	
	(a) 1	<b>(b)</b>	2	0	3	<b>d</b>	4
94	The like terms in the exp	ressi	on 2f+2-2k-8	is	P48410		
	2f, 2k	<b>(b)</b>	2,8	<b>©</b>	2,2k	<b>d</b>	2f,2
95	The constant in the expr	essio	n 6d+2-5n is				
	6	<b>b</b>	d	<b>©</b>	5n	<b>d</b>	2
96	The coefficient in the ex	press	ion 6d+2is	н			
	6	<b>(b)</b>	d	C	6d	<b>d</b>	2
97	The balance (mean) of t	he fol	lowing date set 1, 2	,3,4	, 4,6,8 is		
	2	<b>b</b>	6	0	4	<b>d</b>	8
98	is another na	me fo	r the mean .				

Range





Mode

Average



#### **Question 02**

#### Complete

- 1) 6 cubed = .....6<sup>3</sup>.......
- 2 5 squared = .....5<sup>2</sup>......
- $\mathbf{3}$   $\mathbf{5}^2 + \mathbf{6} \mathbf{2}^3 = \dots 23\dots$
- If the number of chicken owned is "t" and the number of eggs collected daily is "h", then the independent variable is ....t.....
- The lower quartile for the set of data: 5, 7, 9, 10, 12, 15, 20 is...7..
- 6 The graph shows gaps and cluster is ..... dot plot.....
- The graph shows distribution and spread is ....box plot....
- The upper quartile of the values "7, 1, 6, 2, 3, 1, 9" is.....7.....
- The median of the values "2, 7, 10, 0, 2, 5, 6, 6, 12, 1" is...5.5...
- If the upper quartile of the values: x + 14, x + 10, x + 12, x + 15, x + 16, x + 11, x + 14, x + 17 where x = 0 is a positive integer is 18.5, then x = 0...
- 5x = 20, then  $\frac{1}{2}x = ...2$ .....
- 120 x = 0 , then 12 x = ...0......
- (13)  $100 \times = 100$ , then  $12 \times = .....12$ .....
- $\frac{x}{5} = 6$ , then x = ...30.....
- 15 3 n = 15, then n = ......5.........
- 16 X + 5.4 = 7.8, then x = .....3.4.....
- $7 \times = 28$ , then  $\frac{1}{2} \times = .....2$ .....
- (18) "F equals the product of m and 6" as an equation is .....f = 6m ..........
- The inequality that represent the negative integers is ..... x ≤ -1 .....
- we use..... dot plot......to see exactly how many times each individual values occurs.
- The inequality that represent the positive integers is ..... x ≥ -1 .......
- The smallest natural number is .......0.......
- The inequality that represent the non-negative integers is ...x ≥ 0 ........
- The inequality that represent the non-positive integers is .....x ≤ 0 ........







- 25) The graph shows the 5-number summary is .....box plot.....
- The graph shows the set of data in form of intervals is .....histogram.....
- Twice x added to 7 equals y "as an algebraic equation is ...y = 7 + 2x ..........
- "m = 5d 5" as an verbal is ...m equals 5 times d decreased by 5 .......
- In the equation :  $d = \frac{5}{9}n 8$  the dependent variable is .....d..........
- The verbal phrase for k + 10 = 12 is .....the sum of a number and 10 equals 12 ......
- (31) "20 more than v equals m" in equation is ......v + 20 = m......
- The rule is "multiply by 8". if  $x = \frac{1}{4}$ , then y would be .....2......
- 4 more than s equals t in equation is ....s + 4 ....
- The word phrase for the equation "h = 8 g " is ... h equals 8 times g...
- The ordered pair which satisfies the rule: y = x + 5 is (1, ..6...)
- 36) In the rule: y = 4x, if x = 1.5 then  $y = \cdots 6$ ...
- The verbal phrase for : 2 m + 4 = 8 is ......double m increased by 4 equal 8 .....
- 38  $5-3\frac{2}{5}-...1\frac{3}{5}$
- "z equals the sum of adding 12 to the product of 4 and y" the equation is ....z = 4y + 12....
- The dependent variable in the equation  $\mathbf{a} = \mathbf{4} \mathbf{b} + \frac{1}{2}$  is....a....
- .....range......= maximum value minimum value
- The maximum values for the set of values "4,7,9,1,6" is..9...
- The favourite colours of a number of pupils are..... categorical...... data.
- If the mean of 5 values is 15, then the sum of these values is....75.....
- If the marks of 6 pupils in one of the tests are 29, 33,57,40,36 and 49, then the range for these marks is equal to....28...
- The number of integers between -5 and -1 are .....3.....
- The smallest counting number is ......1........
- The value of the expression  $2x^2 (2 \times 3 + 3^2)$  for x = 3 is .......3..........
- 49 If the price of one pen is 6 pounds, then the price of x pens is .....6x.........
- f the price of 10 pens is x pounds, then the price of one pen is .....x ÷ 10.....x
- In 54 the base is .....5......and the exponent is .....4.....







- The base is 8 and the exponent is 3, then the exponential form of this is ......83.......
- [53] In a square the side length is x then the perimeter is .....4x.... and the area is ...x²....
- ....outlier.... are the values that lie away the other values.
- (55) ....median....is the middle values of the data set.
- 56) The additive inverse of -6 is .....6.......
- (57) The additive inverse of 0 is .....0.......
- 58) The LCM of 5 and 7 is .....35......
- (59) .....mode......is the value that occurs most often .
- If 50 is the greatest number of data set and the range = 10 ,then The smallest number of this data set equals.....40......
- 61) The number -2.5 in the form  $\frac{a}{b}$  is ......  $-\frac{25}{10}$  .......
- 62) The opposite of the number 50 is .....-50.......
- 63 The integer which comes just before -9 is .....-10......
- 64) The GCF of 5 and 7 is .....1.....
- 65) The outlier of the following date set 91, 94, 93, 3, 90, 99 is....3....
- 66 The mode of the following set "3,4, 5,3,5,7,5,9,5,3" is...3....
- 67 The range of the set of values 6, 5, 9,4,11,3, 7 is.....8....
- If the range of a set of values is 12 and the smallest value is 8, then the largest values is....20,....
- 69 If the sum of a group of values is 18 and the mean of these values is 3, then the number of these values is....6.....
- The smallest positive integer is ......1.......
- The smallest non-negative integer is ......0......
- The greatest non-positive integer is ...........
- type of data is .... categorical..... or ... numerical......
- What is your favourite school subject? is a.... non-statistical.... question.
- 75 The GCF of 8 and 9 is .....1............
- 76) The LCM of 8 and 9 is ......72.........
- (77) 864 ÷ 24 = .....36......







- 78 .....0.....is a multiple of all numbers.
- 79 .....1.....is a factor of all numbers.
- The number of terms in the expression 6h + 2d 3x is .....3......terms
- (81) The constant in the expression 5f + 2b + 3 is .....3......
- **82** 1-51+3 = .....8.....
- (83) The graph shows spread of the data in each quarter is... box plot....
- ..... numerical....... data is written in the form of numbers.
- The types of pens preferred by your class's students is a ....categorical.... date.
- **86** The median of the following date set "4, 5,7,7,8,9,9" is...7....
- 67) I-18 | x 0 = .....0.
- The algebraic expression of a number less than 5 is .......5-x......
- The algebraic expression of a number less 5 is ......x-5......
- The coefficient in the expression -5d + 3 is ......-5... ....
- (91) The product of 5 and a number t is .....5t.........
- Twice the difference between a number and 6 is ...2(x-6).........

#### **Ouestion 03**

#### Answer the following questions

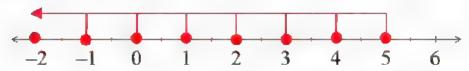
- Simplify the following: 1)  $6^2 + 2(24 - 9) + 3$  2)  $8 - 4 \times 6 + (5 - 3)^3$ 1) 46 2) 5
- Mohamed has x pounds . he bought a book for 60 pounds . write the algebraic expression of how much money with him now .

X - 60

3 Represent  $-2\frac{2}{5}$  on the number line.



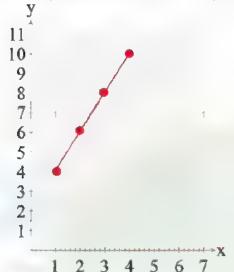
Represent  $5 \ge x$  on the number line in the set of integers.





Write an equation. Use the variables x and y, where x is the independent variable.

Write the equation "add 1 and multiply by 2" and substitute x by 1,2,3 and 4 to evaluate y. then complete the table, then represent the table on a graph.



Equation is: .....  $(x+1) \times 2$  .....

Х	1	2	3	4
у	4	6	8	10

- 6 Write a verbal phrase for each of the following:
  - a) f + 10 = m
- b) b = 5 k
- c) 2n + 8 = a

- a) 10 more than f equals m
- b) b equals 5 decreased by k
- c) the sum of twice n and 8 equals a
- Complete the following table according to the equation: y = 3x 1

Х	1	3	5	7	
У	2	8	14	20	

Masa needed to earn at least 100 pounds daily to buy a mobile, find four possible amounts that Masa needed to earn, then write the inequality that represented this situation.

100,150,200,300 -  $x \ge 100$ 

9 Joudy paid 3,888 pounds to buy 24 candies . find the price of each box .

3,888 ÷ 24 = 162 pounds

Find three rational numbers between 3.5 and 3.6

3.51, 3.52, 3.53

Write an equation, use the variables x and y, where x is the independent and using the rule " multiply by 8", then substitute  $x = \frac{1}{2}$  to evaluate y.

The equation is y = 8x

, then  $y = \frac{1}{2} \times 8 = 4$ 



- Write each the verbal phrase as an algebraic equation:
  - (a) m equals twice n increased by 20
  - (b) y equals the product of eight and x added to 48

a) m = 2n + 20

b) y = y = 48 + 8x

13) When m = 3, solve  $9 + (m^2 - 3) \div 2$ 

12

Rodina has 30 pounds, she will save 10 pounds daily, write the algebraic expression, then evaluate how much money will she have after 1 week?

The expression is 30 + 10 d

Money with her  $= 30 + 10 \times 7 = 100$  pounds

Write a verbal phrase for each of the following equation:

a) y = 3x + 1

- b) y + 5 = x
- c)  $g = (h \div 3) + 12$

a) y equals 3 times x increased by 1

b) the sum of y and 5 is x

c) g equals the sum of h divided by 3 and 12

- Write an equation, use the variables x and y where x is the independent variable, then evaluate y
  - a) The equation " multiply by 6", substitute if x = 7
  - b) The equation "multiply by 2 and add 3", substitute if x = 2

a) y = 6x, then  $y = 6 \times 7 = 42$ 

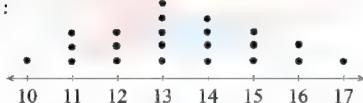
b) y = 2x + 3, then  $y = 2 \times 2 + 3 = 7$ 

By using the opposite dot plot find :

(a) The median

(b) The mode

(c) The range



- Median= 13 , mode = 13 , range = 7
- If the number of goals registered by Al Zamalek in 6 matches are 3, 2, 6, 6, 1, 6

Calculated the mean, median and mode of the number of goals.

Mean =  $24 \div 6 = 4$ 

Median =  $9 \div 2 = 4.5$ 

Mode = 6



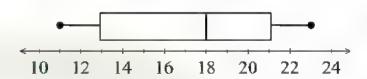




Rahma runs 3 km on Saturday, 5 km Sunday, 4 km Monday 4 km Tuesday and 4 km Friday
Find the mean distance covered by Rahma.

Mean =  $20 \div 5 = 4$ 

- from the opposite box plot, complete
  - (a) The maximum value = ....23.....
  - (b) The minimum value = .... 11.....
  - (c) the median = ..... 18......
  - (d) the lower quarter = ...13....
  - (e) the upper quarter = .....21.....



Solve each of the following equations:

(a) 
$$\frac{x}{4} = 3$$

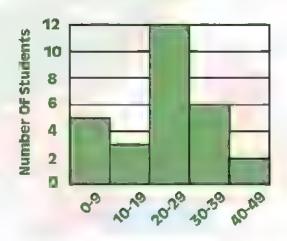
(b) 
$$12x - 5 = 7$$

a) 
$$x = 12$$

b) 
$$x = 1$$

- from the histogram shown at the right answer the following questions.
  - 1. Which interval represents the most number of students? ....20-29....
  - 2. Which interval has three students? .... 10-19.....
  - 3. How many students went to a pool at least 30 times last summer? ....8.....
  - 4. How many students went to a pool less than ten times last summer? ....5....

Number of visits to a pool Last summer



**Number Of visits** 

تم بحمد الله ،

بسم الله الرحمن الرحيم " إِنَّ الَّذِينَ آمَنُوا وَعَمِلُوا الصَّالِحَاتِ إِنَّا لَا نُضِيعُ أَجْرَ مَنْ أَحْسَ عَمَلًا " صدق الله العظيم

E. Ro

# الوراجوارها (4)







# Part 1

From: Unit 1, Lesson 1

To: Unit 3, Lesson 3

Final Revision

# 1 Choose the correct answer

(1	In the equation	- 379 -	25 =	15 R3	the	dividend is	
11	) in the equation	:3/0 7	- 43 —	ID NO	, uit	uiviuenu is	

A 378

**B** 25

© 15

② 3

(2) In the equation:  $544 \div 12 = 45 \text{ R4}$ , the divisor is ......

**A** 544

**B** 12

© 45

② 4

(3) In the equation:  $5,314 \div 15 = 354 \text{ R4}$ , the quotient is ............

♠ 5,314

**®** 15

@ 354

(4) In the equation:  $1,860 \div 32 = 58 \text{ R4}$ , the remainder is ......

A 1,860

® 32

© 58

**0** 4

(5) In the equation:  $2,150 \div 25 = 86$ , the remainder is .....

 $\bigcirc$  0

® 2,150

© 25

**10** 86

(6)  $820 \div 24 = 34 R \dots$ 

 $\bigcirc$  0

B 2

© 4

(e) 6

(7) 6, 280 ÷ 25 =√.5.4.......

A 215 R5

® 251 R5

© 251

@ 255 R1

(8) A school has 1,440 students which distributed between 24 classes equally. How many students are in each class?

A 40

® 50

© 60

**970** 

(9) Eslam saves 210 L.E weekly. How much did he save daily?

A 10

**B** 20

© 30

**40** 

•— Math	- Math primary 6 — First-Term —							
(10) The sma	llest prime number is	*****						
<b>(A)</b> 0	<b>B</b> 1	<b>©</b> 2	<b>©</b> 3					
(11) The small	llest odd prime number i	is						
<b>(A)</b> 0	B 1	<b>©</b> 2	<b>©</b> 3					
(12) The only	even prime numbe <mark>r</mark> is							
<b>(A)</b> 0	<b>®</b> 1 1	<mark>⊚ 2</mark>	<b>©</b> 3					
(13) The com	mon factor of all number	rs is <mark></mark>						
<b>(A)</b> 0	<b>®</b> 1	© 2	<b>©</b> 3					
(14) The common multiple of all numbers is								
<b>(A)</b> 0	<b>®</b> 1	© 2	<b>©</b> 3					
(15) which of the following is a prime number?								
A 20	® 15	© 7	<b>©</b> 9					
(16) which of	the following is not a pr	ime number?						
A 2	B 5	© 7	<b>D</b> 9					
(17) The G.C.I	F of 3 and 5 is							
A 1	B 3	© 5	<b>©</b> 15					
(18) The L.C.N	M of 3 and 5 is							
A 1	B 3	© 5	<b>D</b> 15					
(19) The G.C.I	F of 6 and 12 is	MAI TH	CHARLES					
A 1	<b>®</b> 6	<b>©</b> 12	<b>③</b> 72					
(20) The L.C.M of 6 and 12 is								
<b>(A)</b> 1	<b>B</b> 6	<b>©</b> 12	<b>©</b> 72					
2 —	– Eng-Eslam Emam –		01004041878					

Math	primary 6 ————	Fi	- First-Term ——						
(21) The G.C.F of 10 and 15 is									
<b>(A)</b> 10	<b>3</b> 15	© 5	<b>③</b> 30						
(22) The L.C.M	of 10 and 15 is								
<b>(A)</b> 10		© 5	<b>③</b> 30						
(23) In the opp	(23) In the opposite Venn diagram, the G.C.F is								
		® 2							
© 10	1	<b>1 1 1 1 1 1 1 1 1 1</b>	3 (2) 5						
(24) In the opp	oos <mark>ite</mark> Venn diagram, the I								
A 1		® 2	3 (2) 5						
© 10	MI	<b>©</b> 30							
(25) In the opp	<mark>oosite</mark> Venn diagram, the C	G.C.F is							
A 1	9 0 0 0	® 2							
© 7		<b>1</b> 4	(2)						
(26) In the opp	oosite Venn diagram, the I								
A 1	24	∩ B 2	$\left(\begin{array}{c} 2 \\ 2 \\ \end{array}\right)$						
<b>©</b> 7	-	<b>14</b>							
(27) from the (	opposite Venn diagram G.	C.F =							
	G ESLA	® 210	7 (2) 5						
© 42		<b>②</b> 30	$7 \begin{pmatrix} 2 \\ 3 \end{pmatrix} 5$						
(28) from the	opposite Venn diagram L.	C.M =							
A 6		® 210	(2) 5						
© 42		<b>②</b> 30	7 (3) 5						
3 -	- Eng-Esiam Emam	O	1004041878						

(29) the G.C.F of two relatively prime numbers is ......

A 0

© 2

© 3

(30) which of the following are relatively prime numbers? .....

A 2 and 10

(B) 4 and 9

**②** 4 and 6

(1) 8 and 6

 $(31) \ 35 + 42 = \underline{\qquad} (5+6)$ 

**A** 35

**30** 

**6** 

0 7

 $(32) 16 + 24 = 8 (2 + ___)$ 

A 24

**®** 16

© 2

**①** 3

 $(33) 8 + 24 = 8 ( _ + 3)$ 

A 1

© 3

24

 $(34) 10 + 45 = 5 ( _ + _ )$ 

A 10,40

® 5,40

© 9,5

② 2,9

 $(35)\frac{2}{5} + \frac{3}{10} = \dots$ 

 $\triangle \frac{5}{15}$ 

 $0^{\frac{1}{2}}$ 

 $(36)\frac{3}{4} - \frac{5}{9} = \cdots$ 

 $\triangle \frac{1}{4}$ 

(37)  $5\frac{1}{2} + 3\frac{1}{5} = \cdots$ 

 $\triangle 8\frac{2}{7}$ 

 $8\frac{7}{10}$ 

 $\odot 8\frac{1}{2}$ 

 $\odot 8^{\frac{2}{5}}$ 

 $(38) \ 2\frac{1}{4} - 1\frac{1}{2} = \cdots$ 

(A)  $1\frac{1}{2}$ 

 $\frac{3}{4}$ 

 $\odot 1\frac{3}{4}$   $\odot \frac{4}{2}$ 

•— Math p	orimary (	5 ———	First-Te	erm ——•				
(39) which is an	integer	?						
♠ −0.2		(3) $\frac{1}{2}$	<b>◎</b> −10	① $3\frac{1}{2}$				
(40) which of the following numbers is an integer?								
$\triangle -\frac{24}{5}$		$\frac{4}{8}$	$\odot \frac{15}{5}$	<b>③</b> 3.2				
(41) the smallest counting number is								
<b>A</b> 0		_B 1	© -1	<b>□</b> −10				
(42) the smalles	st natura	l number is						
<b>(A)</b> 0 / 1	1	<b>1</b> 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	_©-1 ***	<b>ⓑ</b> −10				
(43) the greatest negative integer is								
♠ -2		<b>®</b> −1	© 0	◎ -[-1]				
(44) the greatest number from the following is								
♠ -2		<b>⊕</b> −1	<mark>⊚ −10</mark>	<b>◎</b> −11				
(45) the greates	st non-po	sitive integer is						
<b>A</b> 1	000	® 0	© -1	© 2				
(46) the smalles	st non-ne	egative integer is	1441					
A 1		® 0	© -1	<b>⑤</b> −[−1]				
(47) The number	er	is neither positive n	or negative.					
A 1	15	<b>B</b> 0	<b>⊙</b> −1	<b>©</b> 2				
(48) the integer	which ju	ıst next -5 is	FIAICA	I Y U				
♠ -3		<b>③</b> −4	<b>◎</b> −5	<b>◎</b> −6				
(49) the integer which just before -1 is								
		<b>®</b> 0	<b>©</b> 1	<b>©</b> 2				
5 ——	Eng-Est	am Emam ———	010040	41878				

- Math primar	γ 6	First-T	erm
(50) Each number in t	the set of integers is	called	
(A) element	® set		
© subset	not subset		
(51) the additive inve	rse of -2 is		
♠ -2	③ 2	© 0	<b>D</b> 4
(52) the opposite of 5	is :	Pi-	
<b>A</b> 5	® -5	© 0	<b>◎</b> −7
(53) the opposite of -	5 is		
<b>A</b> 5	<b>®</b> −5	© 0	<b>◎</b> −7
(54) the opposite of -	-[-5] is		
<b>A</b> 5	<b>®</b> −5	© 0	<b>D</b> -7
(55) the opposite of the	ne opposite of 5 is		
♠ -5	<b>®</b> −[−5]	© 0 •	<b>1</b> 0
(56) in the opposite n	umber line, the inte	ger A is	
♠ -1		®-2 <b>←</b>	A 0
<b>⊚</b> −3		<u> </u>	
(57) which of the follo	wing is nearest to 2	zero?	
	<b>9</b> 4	<b>⊚</b> −3	2
(58) -5	3 8 <	©=EMA	M
(59) -2	7		
	B <	© =	
	-3] ® <	© =	

<ul><li>Math primary 6 ————</li></ul>	First-Term
(61) All the following numbers are ration	nal except
<b>(A) (B) 5</b>	
(62) All the following numbers are ration	nal except
	© $\frac{1}{7}$ © $\frac{4}{2-2}$
(63) the best subset of the number 1 is	
A counting number	B natural number
© integer	© rational number
(64) the best subset of the number 0 is	
© counting number	® natural number
© integer	© rational number
(65) The best subset of the number -5 is	
© counting number	natural number
© integer	© rational number
(66) The best subset of the number 4.85	4 is
(A) counting number	natural number
© integer	© rational number
(67) - 4 set of counting numbers	
A belongs to	(a) does not belong to
© is a subset of	1s not a subset of
(68) the opposite of - 5 set of nat	tural numbers.
(A) belongs to	(B) does not belong to
© is a subset of	is not a subset of

Eng-Eslam Emam -

Math primary 6	First-Term
(69) – 2.5 set of integers.	
A belongs to	® does not belong to
© is a subset of	is not a subset of
(70) set of integers set of rational	numbers.
A belongs to	® does not belong to
© is a subset of	is not a subset of
(71) set of natural set of counting	nu <mark>mbers.</mark>
A belongs to	® does not belong to
© is a subset of	is not a subset of
(72) set of counting set of integer	S.
(A) belongs to	(B) does not belong to
© is a subset of	is not a subset of
(73) the number 5 in the form $\frac{a}{b}$ is	
$\bigcirc \frac{1}{5}$ $\bigcirc \boxed{\bigcirc \frac{5}{1}}$	© $-\frac{15}{10}$ © 0.5
(74) the number $2\frac{3}{5}$ in the form $\frac{a}{b}$ is	
(A) $\frac{23}{5}$ (B) $\frac{5}{0}$	© 13 0 253
(75) the number -1.5 in the form $\frac{a}{b}$ is	*******
$\bigcirc -\frac{1}{5}$ $\bigcirc -\frac{5}{1}$	© $-\frac{15}{10}$ © $-5\frac{1}{10}$
$(76)  \frac{3}{5} \qquad \qquad \frac{2}{7}$	
(77) 1 B <	© =
$(77) - \frac{1}{4} \qquad -\frac{2}{9}$	

B <

A >

- Math prim	ary 6 ————	Fir	st-Term ——
(78) 0.7 0.65			
(A) >	® <	© =	
$(79) \frac{2}{8} \qquad \qquad \boxed{ 0.5}$			
A >	® <	© =	
(80) the greatest nu	ımber from th <mark>e</mark> follow	ving <mark>is</mark>	
$\bigcirc$ $\frac{1}{2}$	$ \bigcirc$ $\frac{1}{3}$	© 1/4	$\bigcirc \frac{1}{12}$
(81) the smallest n	umber from the follow	ving is	
⊕ 0.11	® 0.3	$\odot \frac{1}{2}$	<b>0</b> 0.15
(82) is lying	g between 3.1 and 3.2		
♠ 3.15	® 3.21	© 3.20	<b>③</b> 3.22
(83) the <mark>absolute</mark> v	alues of 5 is		
	® 57 (	© 0.5	<b>©</b> 0.125
(84) the absolute va	alues of $-\frac{1}{2}$ is		
$\triangle - \frac{1}{2}$	$\frac{1}{2}$	© $-\frac{3}{2}$	① $3\frac{1}{2}$
(85) the opposite o	$ -\frac{1}{2} $ is	0	
$\bigcirc -\frac{1}{2}$	(B) $\frac{1}{2}$	$\frac{3}{2}$	① $3\frac{1}{2}$
(86) the absolute va	alue of the opposites o	of $-2\frac{1}{5}$ is	CALAG
$\triangle 4\frac{2}{5}$	® 0	© $-2\frac{1}{5}$	① $2\frac{1}{5}$
(87) the absolute va	alues of opposites are	************	

® different (A) equal 

$\mathbf{A}_{-}$	44		ary	-
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First-Term \_\_\_\_\_

 $(88) |2| \times |-2| = \dots$ 

 $\bigcirc$  0

**B** 4

 $\bigcirc -4$ 

 $\bigcirc -1$ 

(89) |-10| + |-2| 20| - |-10|

A >

B <

**©** =

 $(56) |-7| > \dots$ 

- ♠ [-6]
- (B)[-7]

© -8|

D |-9|

(90) which of the following is an algebraic expression? .....

 $\bigcirc$  44 - 3 + 4

3+7-0

© 15a - 32

① 2(3+14)

(91) which of the following is a numeric expression? .....

 $\triangle$  46z - 25

(B) 3x + 7 - 0

© 15a + 2x

 $\bigcirc$  2(3 + 14)

(92) The constant in the expression 2x + 5 is ......

- **(A)** 2
- $\sqrt{5} \otimes 2x$

 $\bigcirc 2x + 5$ 

**1** 5

(93) The coefficient in the expression 2x + 5 is ......

A 2

**3**2x

 $\odot 2x + 5$ 

**0** 5

(94) The constant in the algebraic expression 5 + 3y + 2x + 1 are .....

- A 5,3,2,1
- **B** 3,2

@ 3,2,1

D 5,1

(95) The coefficients in the algebraic expression 5 + 3y + 2x + 1 are .......

- A 5,3,2,1
- B 3.2

© 3.2.1

© 5,1

(96) Which of the following are like terms?

- **A** 25,52
- 6 2b, 2c
- @ab, aC

 $\bigcirc n, m$ 

A A - 1 h 2 h	-
	~
Math primary (	D.

First-Term \_\_\_\_

(97) The number of terms of the expression: 5 - 2m - 3m + 4 is ... terms.

A 5

(B) -2

 $\bigcirc$  -3

(D) 4

(98) the number of like terms in the expression 3 + 2x + 5 is ......

A 1

**B**2

**©** 3

(D) 4

(99) 2 + 3 + 5, complete to get a numeric expression.

 $\triangle$  a

(B) k

- ©  $30 \div 5$
- $\bigcirc b + c$

(100) we subtract 5 from the number x, we get ...........

 $\bigcirc$  5x

- $\bigcirc 5-x$
- $\odot x 5$
- $\bigcirc x + 5$

(101) Three times a number less two is ......

- $\bigcirc$  3x + 2
- (B) 3x 2
- $\bigcirc$  2x3x

(102) Three times a number less than two is ......

- (A) 2 + 3x (B) 3x 2
- $\bigcirc 2x3x$

① 2 - 3x

(103) Subtracting 3 from double a number .....

- $\bigcirc n-3$
- (B) 2n 3
- © 3n + 2
- $\odot$  5n

(104) Twice the difference of a number and 5 is .....

- $\triangle 2v + 5$
- (B) 2v 5
- ©2 (y + 5) © 2 (y 5)

(105) The algebraic expression "Twelve less than three groups of y" is. -----

- (A) 12 3y
- (B) 3y 12
- $\odot v 12$
- $\bigcirc$  12 y

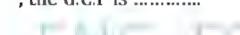
(106) Laila saved n L.E. and her mother gave her 5 L.E., she will have ... L.E.

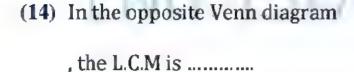
- $\bigcirc n-5$
- $\bigcirc n + 5$
- $\odot$  5n

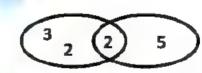
 $\bigcirc 5 - n$ 

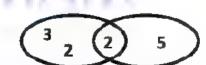
# complete

- $8.529 \div 25 = 341R \dots$ (1)
- (2)The divisor in the equation:  $16,692 \div 52 = 321$  is.....
- The smallest prime number is ..... **(3)**
- The smallest odd prime number is ..... **(4)**
- **(5)** The only even prime number is ......
- The common factor of all numbers is ..... (6)
- The common multiple of all numbers is ..... **(7)**
- The G.C.F of 5 and 7 is ..... (8)
- The L.C.M of 5 and 7 is ..... (9)
- (10) The G.C.F of 4 and 8 is .........
- (11) The L.C.M of 4 and 8 is ......
- (12) The G.C.F of 6 and 8 is ......
- (13) In the opposite Venn diagram , the G.C.F is ......









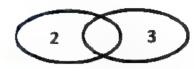
(15) In the opposite Venn diagram

, the G.C.F is ......



(16) In the opposite Venn diagram, the

, the L.C.M is ......



(17) The G.C.F of two relatively prime numbers is ......

 $(18) 8(5+4) = 40 + \underline{\hspace{1cm}}$ 

- $(20) \ 5 \left(2 + \underline{\hspace{1cm}}\right) = 10 + 35$
- $(21) 9 (1+2) = 9 + \underline{\hspace{1cm}}$
- $(22) \quad \underline{\qquad} [5+2] = 15+6$
- $(23) \ \frac{1}{5} + \frac{1}{3} = \dots$
- (24)  $\frac{3}{7} + \frac{1}{6} = \dots$
- $(25) \frac{1}{4} + \frac{1}{12} = \dots$
- $(26) \ \frac{5}{6} \frac{7}{10} = \dots$
- (27)  $\frac{5}{6} \frac{3}{8} = \dots$
- (28)  $10 \frac{1}{2} 5 \frac{1}{3} = \dots$

•	Math primary 6 — 1	First-Term ——
(29)	Each number in the set of integers is called	•••
(30)	The smallest counting number is	
(31)	The smallest natural number is	
(32)	The smallest positive integer number is	
(33)	The greatest negative integer is	
(34)	The greatest non-positive integer is	
(35)	The smallest non-negative integer is	
(36)	The number is neither positive nor negative	tive.
(37)	The integer which just next - 1 is	1
(38)	The integer which just before – 1 is	
(39)	The integers between -3 and 2 are	
(40)	The number of integers between -3 and 2 is	
(41)	The opposite of 3 is	
(42)	The opposite of -3 is	
(43)	The opposite of zero is	
(44)	The distance between the opposite of 4 and 0 on	the number line
	equals units.	
(45)	The distance between the number 2 and its oppo	site on the number
	line equals units.	

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First-Term \_\_\_

(46) The best subset of the number 25 is ......

(47) The best subset of the number 0 is .....

(48) The best subset of the number - 1 is ......

(49) The best subset of the number - 1.5 is ......

(50) |-7|=......

(51) | 0 | = ......

(52)  $|-3| + |2| = \dots$ 

(53)  $|-3| \times |-5| = \dots$ 

 $(54) |-2| \times |0| = \dots$ 

(55) positive integer negative integer

(56) zero negative integer

(57) zero positive integer

(58) 3 -7

(60) 2.5

(61) The additive invers of 5 -5

(63) |-1| -[-1]

(64) |-5|

(65) |-2.71| 2.7

(66) |-10| + |-2| | |20| - |-10

(67) The opposite of  $\left|-\frac{1}{2}\right|$  is ......

1	Math	primary 6	
- ,		Secretary of the second	

First-Term \_\_\_\_

- (68) The constant in the expression 3y + 2x 5 is ......
- (69) The constant in the expression 2x + y is .......
- (70) The coefficient in the expression 3y + 2x 5 is ......
- (71) The coefficient in the expression 1.5 + 4 5 is ......
- (72) The verbal expression from "x + 2" is ............
- (73) The verbal expression from "y 5" is ..........
- (74) The verbal expression from "5x" is ......
- (75) The verbal expression from "4 3n" is ......
- (76) The algebraic expression for "a number less 7" is ...........
- (77) The algebraic expression for "a number less than 7" is ............
- (78) The algebraic expression for "Subtract 3 from the number y "is ........
- (79) The algebraic expression for
  - Four times the sum of a number and seven is ......

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- (80) The algebraic expression for
  - "Add 5 to the doubte of the number x" is ......

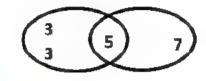
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# 3 Answer the following questions

#### (1) Using the following Venn diagram, complete

a- The two numbers represented in the Venn diagram are ----- and -----

b- The G.C.F of the two numbers is -----



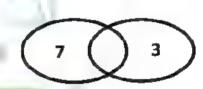
c- The L.C.M of the two numbers is

d- Are the two numbers relatively prime numbers? (Yes - No)

#### (2) Using the following Venn diagram, complete

a- The two numbers represented in the Venn diagram are ----- and -----

b- The G.C.F of the two numbers is -----



c- The L.C.M of the two numbers is -----

d- Are the two numbers relatively prime numbers? (Yes - No)

#### (3) Using the following Venn diagram, complete

x = .....

$$\begin{pmatrix} \mathbf{X} & \mathbf{Y} \\ 2 & \begin{pmatrix} 2 \\ 3 \end{pmatrix} & 7 \end{pmatrix}$$

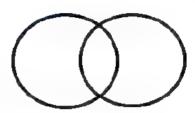
The  $GCF = \dots$ 

The 
$$LCM = \dots$$

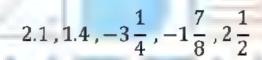
The expression 
$$= \dots (\dots + \dots)$$

Use Venn diagram to find G.C.F and L.C.M of: **(4)** 

15 and 10



Order the given set of numbers from least to greatest.



Ahmed has 10 L.E. in her money box, he will save 5 L.E. daily.

a- What algebraic expression represent this situation?

b- How much money in the money box after 3 days?

•	— Math primary 6 — First-Term — —
(7)	Find two rational numbers lies between: $\frac{3}{4}$ and $\frac{4}{5}$
(8)	Find two rational numbers lies between: $-1.2$ and $-1.3$
(9)	Represent the numbers on the number line.
	-3, 3, 5, 0, -2, -1
	0
(10)	A factory produces 1,645 pieces of cloth weekly.
	How many pieces did the factory produce daily?
	EMG. ESLAIVI EMANI

How many pieces did the factory produce daily?

# Part 2

From: Unit 3, Lesson 4

**To**: Unit 5

Final Revision

# Choose the correct answer.

(1) In 2<sup>3</sup>; the base is .......

(A) 2

(B) 3

© 2<sup>3</sup>

**® 9** 

(2) In 23: the exponent is .......

**A** 2

(B) 3

© 2<sup>3</sup>

**®** 

(3) In 74; 4 is called ......

(A) exponent

(B) power

© index

(1) all of them

(4) In ...... 4 is called the base and 2 is called the exponent.

(A) 2 (B) 4<sup>2</sup>

© 8 °

① 16

(5) If the base is 5 and the exponent is 3, then the exponential form of the number is .....

A 15

⊕ 5<sup>2</sup>

© 3<sup>5</sup>

 $\bigcirc 5^3$ 

(6) 3 to the power of 4 =

(A) 3

**B** 4

© 12

© 81

 $(7) \ 2 \times 2 \times 2 =$ 

 $\bigcirc$  21

B 2<sup>2</sup>

 $(c) 2^3$ 

© 24

 $(8) 5^4 = \dots$ 

 $\bigcirc 5 \times 5 \times 5$ 

 $\bigcirc 5 \times 5 \times 5 \times 5$ 

 $\bigcirc 4 \times 4 \times 4$ 

1 5 x 4

 $(9) y \times y = \dots$ 

(A) y

3 2y

© v<sup>2</sup>

**(D)** 0

 $(10) 1^{100} = \dots$ 

(A) 1

**10** 

© 100

① 1000

(19) The first operation you perform in the expression  $5 \times (3-2) + 7$  is .......

(A) add

® sbtract

@ multiply

(D) exponent

(20) The value of the expression 2m - 4 for m = 3 is ......

 $\bigcirc 0$ 

B) 2

© 3

**D**4

(21) The value of the expression 3n - 2 for n = 7 is ......

**A** 14

**19** 

© 21

© 23

(22) The value of the expression  $x + 3^2$  for x = 1 is ......

(A) 7

**16** 

© 10

① 12

(23) Which of the following expression has the same value of 3x + 5 at x = 3

 $\bigcirc 3(x+1) + 5$ 

(a) 4x + 1

 $\odot 5x + 3$ 

①  $x^2 + 5$ 

(24) If x + 2 = 9, then x = ...

A 2

**B** 5

**0**9

(25) If y + 3 = 5, then 4y = ...

**(a)** 4

© 8

© 22

(26) If k + 1 = 5, then twice k = .....

(A) 1

B) 4

© 5

(D) 8

(27) If x + 4.5 = 5.7, then x = 3.3.3

(A) 1.2

(B) 1.3

© 9.2

① 10.2

(28) If y - 3 = 10, then y = .....

A 12

® 13

© 14

① 15

(29) If  $m - 3^2 = 1$ , then  $m = \dots$ 

A 10

3

© 1

**6** 

(30) If  $z \times 6 = 48$ , then z = .....

(31) If 5y = 35, then  $y = \dots$ 

(A) 6

**©**8

© 35

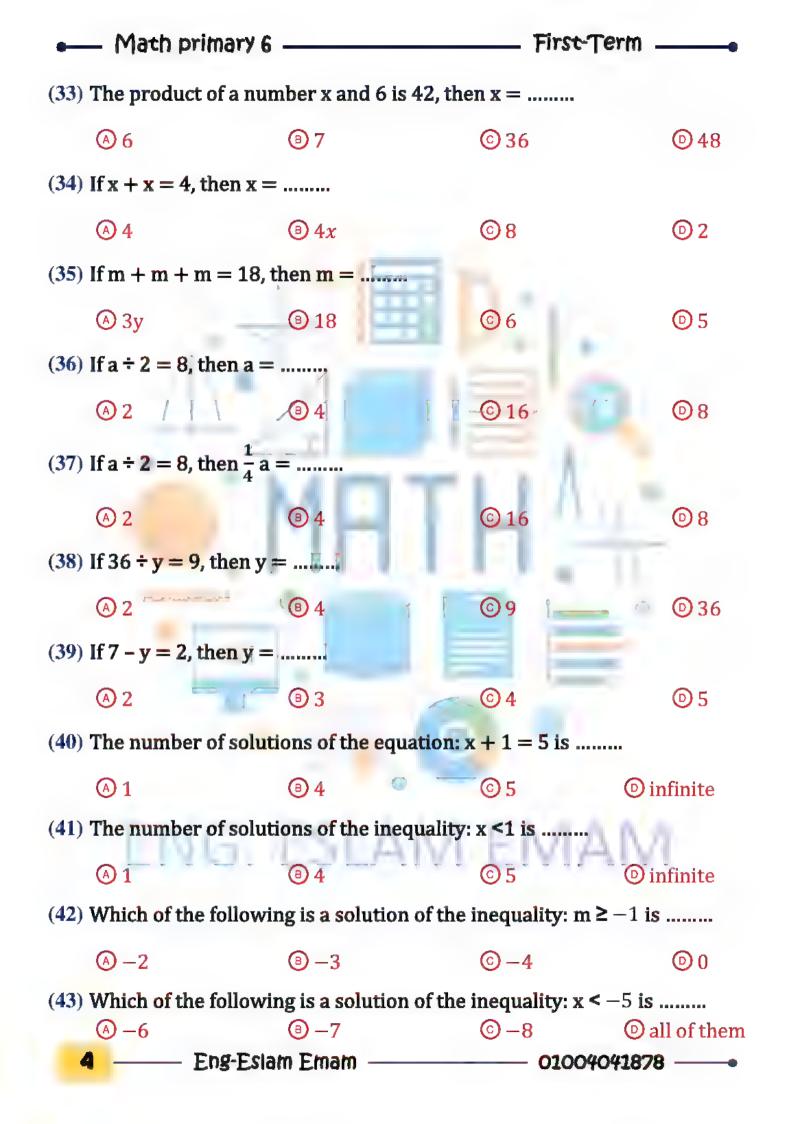
(32) If 5a = 0, then a = ......

 $\bigcirc$  0

**B** 1

**②**2

© 3



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—— Eng-Eslam Emam –

(53) Which of the following is an equation?

 $\triangle 20 + 2x$ 

<sup>®</sup> 2 times y

 $\bigcirc 3 + a$ 

① 2 + 3y = x

(54) In the equation: x = 4y + 3 the dependent variable is .......

A x

B y

<sub>.</sub> © 3

0 4

(55) In the equation: x = 4y + 3 the independent variable is .......

 $\triangle x$ 

B y

© 3

**1** 4

(56) The algebraic equation of "8 more than s equals t " is .......

(A) 8s = 1

 $\bigcirc 8t = 8$ 

 $\bigcirc$  8  $\neq$  s = t

 $\bigcirc 8 + t = s$ 

(57) The algebraic equation of " m equals the product of n and 3" is ........

 $\bigcirc$  m = 3n

 $\bigcirc n = 3m \sim 4$ 

 $\bigcirc n = 3 + m$ 

(58) The algebraic equation of "4 times c is added to 7 equals k" is ........

(A) 4c + 4 = k

37k + 4 = c

 $\bigcirc$  4c + 7 = k

 $\bigcirc 4k + 7 = c$ 

(59) The algebraic equation of " m equals twice n increased by 5 " is ........

 $\bigcirc$  m = n + 5

 $\bigcirc$  m = 2n

 $\bigcirc m = 2n + 5$ 

 $\square$   $\bigcirc$  m =  $\vec{n}$ 

(60) The word phrase for the equation " x = 4 + y " is .......

- A x equals 4 more than y.
- ® x equals 4 times y.

© x equals 4 less than y.

① x equals 4 decreased by y.

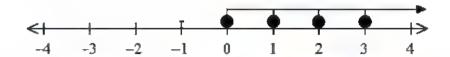
- Math primary 6	; ———	First-7	Term
(61) The word phrase fo	r the equation '	' m = 2n " is	
(A) m equals 2 more	than n.	1 m equals 2 times	s n.
© m equals 2 less th	nan n.	m equals 2 decre	eased by n.
(62) In the equation: $y =$	2 + x, if $x = 3$ ,	then $y = \dots$	
A 2	® 3 ►	0 4	<b>©</b> 5
(63) In the equation: y =	3x, if $x = 5.1$ , the	hen y <mark>=</mark>	
<b>A</b> 8.1	® 53.1	© 15.3	<b>18.3</b>
(64) In the equation: y =	2x, if y = 8, the	en x =	
A 2	( B 4	<b>1 1 06</b> €	© 8
(65) In the equation: y =	x + 1, if the inp	out is 1, then the outp	ut is
②     ②     ③     ②     ②     ③     ③     ②     ③     ②     ③     ②     ③     ③     ③     ③     ③     ③     ③     ③     ②     ③     ③     ③     ③     ③     ③     ③     ③     ②     ③     ③     ③     ③     ③     ②     ③     ③     ③     ③     ③     ③     ③     ③     ③     ③     ③     ③     ③     ③     ③     ③     ③     ③     ②     ③     ③     ③     ③     ③     ③     ③     ③     ③     ③     ③     ③     ②     ③     ④     ③     ④     ③     ④     ③     ④     ③     ④     ③     ④     ③     ④     ③     ④     ④     ④     ④     ④     ④     ④     ④     ④     ④     ④     ④     ④     ④     ④     ④     ③     ④     ⑥     ④     ④     ⑥     ④     ⑥     ④     ⑥     ④     ⑥     ⑤     ④     ⑥	B 4	<b>©</b> 6	© 8
(66) In the equation: y =	x – 6, if the out	put is <mark>2, then the</mark> inpu	ut is
A 2	(B) 4	( <b>©</b> 6 1	<u></u> △ 08
(67) The ordered pair w	hich satisfies th	e equation: y = x + 1	is
(0,2)	B (1,1)	© (1,2)	(2,1)
(68) The ordered pair w	hich satisfies th	ne equation: y = 2x is	
(2,5)	(3,0)	© (0,1)	<b>(0,0)</b>
(69) The ordered pair (2 then a =			SMA
A 2	<b>B</b> 3	<b>©</b> 4	<b>©</b> 5
(70) The ordered pair (2 then b =	, b) satisfies the	e equation: $y = x^2 - 2$	,
<b>(A)</b> 2	<b>B</b> 3	<b>©</b> 4	<b>©</b> 5
7 — Eng-Esta	am Emam —	01004	041878

### 2 complete

- (1) In 35: the base is ...... And the exponent ......
- (2) In ....... 5 is called the base and 3 is called the exponent.
- (3) In 4<sup>2</sup>: 4 is called ...... and 2 is called .....
- (4) If the base is 7 and the exponent is 5, then the exponential form of the number is ........
- (5) Area of the square whose side length 5 cm in the exponential form is ....... cm<sup>2</sup>
- (6) Volume of the cube whose edge 4 cm in the exponential form is ....... cm<sup>3</sup>
- (7)  $3^4 = \dots$
- (8) 2 × 2 × 2 × 2/= ......
- $(9) \quad y \times y \times y = y$
- (10) 5 squared = .......
- (11) 2 cubed = ......
- (12) The value of the expression  $2m 2^2$  for m = 2 is .....
- (13) The value of the expression  $9 + (p^2 3) \div 2$  for p = 5 is ......
- (14) If x + 3 = 12, then  $x = \dots$
- (15) If  $x + \frac{1}{3} = 3$ , then  $x = \dots$

- (16) If m 3 = 7, then  $2m = \dots$
- (17) If 3y = 12, then  $5y = \dots$
- (18) If  $k \div 3 = 5$ , then  $k = \dots$
- (19) If  $a \div 4 = 3$ , then  $3a = \dots$
- (20) If  $\frac{y}{3} = 5$ , then y = ...
- (21) 3y 5 = 7, the y = 11...
- (22) 3x + 8 = 29, then  $x \neq .....$ ...
- (23) The number of solutions of the equation: x + 1 = 5 is ....... Solution.
- (24) The number of solutions of the inequality: x < 1 is .......
- (25) The inequality that represents: all values "greater than -1" is ........
- (26) The inequality that represents: all values "greater than or equal -1" is ........
- (27) The inequality that represents: all values "less than 2" is ........
- (28) The inequality that represents: all values "less than or equal 2" is ........
- (29) The inequality that represents: the set of counting numbers is ........
- (30) The inequality that represents: the set of natural numbers is ........
- (31) The inequality that represents: the set of positive integers is ........
- (32) The inequality that represents: the set of negative integers is ........
- (33) The inequality that represents: the set of non-positive integers is ........
  - 9





(36) In the equation: y = x + 2 the dependent variable is .......

(37) In the equation: 3y - 6 = x the independent variable is .......

(38) The algebraic equation of " m equals twice n increased by 25 " is ........

(39) The algebraic equation of "the product of 2 and y plus 22 equals x " is ........

(40) The word phrase for the equation "y = 2x" is .......

(41) The word phrase for the equation " a + 5b = c " is .......

(42) In the equation: y = 2x + 5.2, if x = 2, then y = .....

(43) In the equation:  $y = x + \frac{1}{3}$ , if x = 5, then y = ......

(44) In the equation: y = x + 1, if the input is 1, then the output is .......

(45) In the equation: y = 3x, if the output is 9, then the input is .......

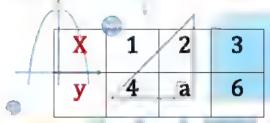
(46) The ordered pair (1, c) satisfies the equation: y = 2x + 1, then  $c = \dots$ 

(47) (4, ......) satisfies the equation:  $y = \frac{1}{2}x + 4$ 

(48) Complete the following table according to the equation y = 2x + 1

X	0	1	2	3
y			1/F	-
	* 1			111

(49) If the equation: y = x + 3 is represented by the table, then  $a = \dots$ 



(50) The equation which represents the table is .......

X	0	2	4	6
у	0	4	8	12

# ENG. ESLAM EMAM

 M	a+h	pri	mary	6
 171	auı	$\mathbf{p}_{11}$	illa! 7	0

### 3 Answer the following questions.

1) Use the order of operations to simplify.

a. 
$$(15-9) + 3 \times 4^2 \div 2$$

b. 
$$40 + 5(3^2 - 7) + 10$$

2) Evaluate the expression:  $5x^2 + 8 \div (6 - 4) \div 2$  at x = 3

3) Check the two expressions are equivalent or not.

5x + 3 and 3x + 5

......

....

4) Solve each of the following questions:

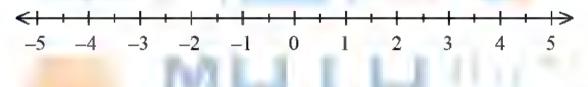
a) 
$$5t = 20$$

b) 
$$7 + c = 17.8$$

.....

c) 
$$2x + 3 = 15$$

5) Represent the inequality  $x \ge 1$  on the number line in the set of integers.



•-----

6) Write an equation use the variables x and y, where x is the independent,

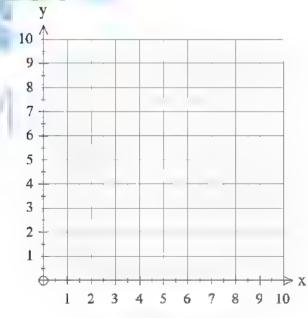
If the rule is "multiply by 8 and add 3". The equation: .....

if 
$$x = 3$$
, then  $y = \dots$ 

7) Complete the following table, then make the graph.

The equation: y = 2x + 1

X	0	1	2	3
у	11/2	17	17.	7



## Part 3

From: Unit 6

**To**: Unit 7

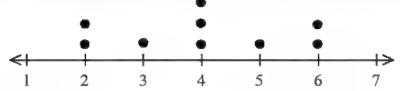
Final Revision

#### Choose the correct answer

(1)is a cate	gorical data.		
(A) date of birt	h ® age	© Favorite sport	(D) weight
(2) is a num	nerical data.		
<b>A</b> Your name	® age	© Favorite color	© Favorite sport
(3) Your name is	data.	### 13 ***	
(A) numerical	® categorica	l © quantitative	(D) otherwise
(4) Your age is	data.		
<b>a</b> numerical	® categorica	l ⓒ descriptive	<b>otherwise</b>
(5) All the following	g data are numer	ical except	
(A) height	® age	© color	(D) weight
(6) All the following	g data are descrip	ptive except	-11
(A) name	® sport	© color	(D) age
(7) Theis th	ne middle value o	of th <mark>e</mark> data set.	
(A) Mode	® Mean	© Median	© Outlier
(8) The minimum o	f the values (4, 7	, 8, 1, 3) is	
<b>A</b> 1	<b>B</b> 3	@ 4'	<b>©</b> 7
(9) The maximum o	of the values (4, 7	7, 8, 1, 3) is	ANA
<b>A</b> 1	<b>B</b> 3	© 4	<b>©</b> 8
(10) The median of	the values (4, 7,	8, 1, 3) is	
(11) The median of	B 3	© 4	<b>0</b> 7
(11) The median of A 2	B 3	5, 7, 8, 10) is © 5	<b>©</b> 6

(12) The median of the following data which represented by the dot plot

is .....



A 2

(B) 3

(c) 4

(P) 5

(13) The lower quartile of the values (5, 7, 9, 10, 12, 15, 20) is ......

A) 7

**B** 10

© 15

(D) 9

(14) The upper quartile of the values (5, 7, 9, 10, 12, 15, 20) is ......

Ø 7 → B 10

@ 15

(D) 9

(15) If the median of (a + 1, a + 2, a + 3) is 10, then  $a = \dots$ 

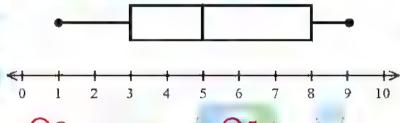
A 1

**B** 2

© 3

(D) 8

(16) The median of the values represented on the opposite box plot is .....



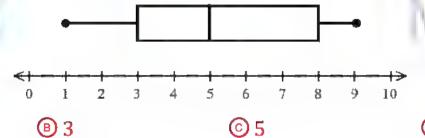
(A) 2

**B** 3

© 5

**0**6

(17) The minimum of the values represented on the opposite box plot is .....

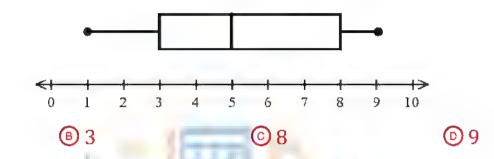


**A** 1

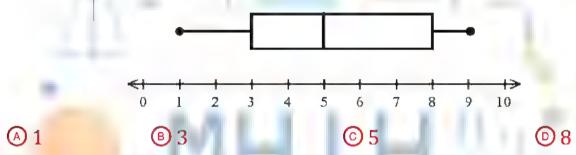
**® ®** 

A 1

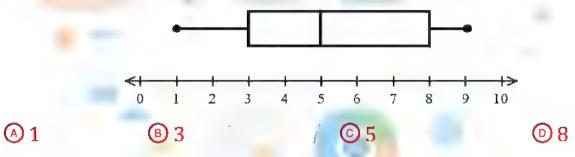
(18) The maximum of the values represented on the opposite box plot is ......



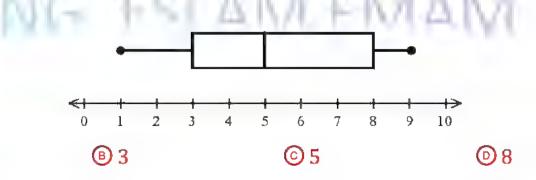
(19) The lower quartile of the values represented on the opposite box plot is ......



(20) The upper quartile of the values represented on the opposite box plot is ......



(21) From the opposite box plot the difference between the upper quartile and the lower quartile = ......



(A) 1

- Math primary 6 —		Fi	rst-Term ——
(22) Which display	makes it easier to see	the median?	
(A) histogram	<sup>®</sup> box plot	© dot plot	📵 bar graph
(23) The shape show	ws the set of data in t	he form of inter	vals is
(A) histogram	® box plot	o dot plot	📵 bar graph
$\frac{\text{sum of values}}{\text{numer of value}}$	= s	Di	
	® Mean	© Median	(D) Outlier
(25) Mean = sum of	values number of	values.	
+ (	<b>8</b> – T	<b>◎</b> ★ → → → → → → → → → → → → → → → → → →	(D) ÷
(26) The mean of th	e data set (7, 13, 6, 2	) is	Λ
<b>(A)</b> 13	® 7	© 6	<b>©</b> 2
(27) The average of	the data set (3, 9, 5,	16, 7) is	
<b>©</b> 6	<b>®</b> 7	© 8	<b>©</b> 9
(28) The balance of	the following data	2 3	4 5 is
<b>(A)</b> 1	<b>a</b> 3	© 4·	<b>©</b> 6
(29) The mean of th	e following data	2 3 4 5	6 7 is
<b>(A)</b> 1	<b>B</b> 3	<b>©</b> 4	<b>©</b> 6
(30) If the sum of 4	numbers is 20, then t	the mean of the	se numbers is
<b>A</b> 4	® 20	© 5	<b>©</b> 6
4 ——— Eng	P-Eslam Emam ——	O:	1004041878

Math prima	ary 6 ————	First-Te	erm —
(31) If the total scor	e of 5 students in mat	h is 60 then, the mea	n is
<b>A</b> 5	® 6	<b>©</b> 10	<b>12</b>
(32) If the mean of (	8, 6, x, 5) is 5, then x	=	
<b>A</b> 4	<b>B</b> 3	© 2	<b>(</b> ) 1
(33) If the mean for	5 valu <mark>es is</mark> 9 then, the	su <mark>m of</mark> these values	is
<b>A</b> 25	® \$5	<b>* 0</b> 45 <b>2 3</b>	© 55
(34) The is t	he most occurs value	s o <mark>f the data.</mark>	
(A) Mode	® Mean	© Median	(D) Outlier
(35) A set of values	with two modes are c	alled	
(A) non-modal	® bimodal	© trimodal ® r	nultimodal
(36) The mode of (5	, 3, 10, 4, 11, 3) is		
<b>A</b> 3	® 4	<b>©</b> 5	© 10
1			
(37) The mode of the	e following data	2 3 4 5 6	is
<b>A</b> 1	<b>®</b> 3	<b>0</b> 4	<b>©</b> 6
(38) If the mode of t	he values (10 <mark>, 2</mark> , x + 6	6) is 10 then x =	
(33) if the inete of t		©6	<b>®</b> 8
(39) If the mode of t	he values (2, 5, 3 – y) <sup>®</sup> 1		<ul><li>© 7</li></ul>
(40) The is v	value that lie away the	e other values.	
	® Mean	⊚ Median	(D) outlier
(41) The outlier of the	he values: (24, 23, 22,	, 3, 28) is	
<b>A</b> 1	® 3	© 5	<b>15</b>
5 — Eng	-Eslam Emam ——	010040	41878

Math primary 6 ————		Fir:	st-Term ——	
(42)	If the outlier is	smaller than oth	er values, then the o	ıtlier the
	mean.			
	(A) increase	® decrease	© stay the same	Ootherwise
(43)	If the outlier is	greater than othe	er values, then the ou	ıtlier the
	mean.	- 15		
	(A) increase	® decrease	© stay the same	(D) otherwise
(44)	Which is better	to use if the <mark>d</mark> ot	plots ar <mark>e distr</mark> ibuted	in one side of the
	graph?	N 10 1		
	(A) median	® Mean	© either mean	or median
(45)	Which is better	to use if the dot	plots are distributed	in two side of the
	graph without	symmetry?		111
	(A) median	® Mean	© either mean	
(46)		to use if the dot	plots are distributed	symmetrically on
	the graph?			
	(A) median	® Mean	© either mean	or median
(47)		sure of the centr	al tendency of the fol	lowing data set
	is			_
		:		
	ENG	0	101 2141	<del>1   1   1   1   1   1   1   1   1   1  </del>
	Median	® Mean	© either mean	or median
(48)	The is t	the better measu	re of central tendenc	y for data set
	with outlier.			
	(A) median	® Mean	© otherwise.	
6	Eng	FEsiam Emam –	010	004041878

Math prin	nary 6 ————	First-T	erm ——
(49) Theis	the better measure of	f central tendency for	r data set
with no outli	er.		
(A) median	® Mean	© otherwise.	
(50) = the	greatest value – the sr	nallest value.	
(A) Mode	® Mean	<b>O</b> Median	Range
(51) Range = $\max$	miń.	3 ( )	
A +	B –	©×	(D) ÷
(52) The difference	between the greatest	value and the small	est value in
the data set is	called		
(A) Mode	® Mean	© Median	Range
(53) The range of t	he set of val <mark>ues (7, 3, 6</mark>	5, 9, 5) is	
<b>A</b> 3	® 4	© 6	© 12
(54) If the values of data set start from 20 to 50, then the range =			
A 20	® 30	© 40	<b>©</b> 50
	61		
(55) The range of t	ha following data	2 3 4 5 6	—
(33) The range of u	ne tonowing data		, 19
<b>(A)</b> 1	B 4	© 5	<b>©</b> 6
(56) The range of t	he following data	1 2 3 4 5 6 7 8 9	is
<b>A</b> 3	® 5	© 7	<b>©</b> 8
(57) The range can	not be found using		
A box plot	® dot plot	© histogram ©	otherwise
7 — En	g-Esiam Emam ——	01004	041878 —

### 2 complete

- (1) The type of statistical questions are ...... and ...... and ......
- (2) The minimum value of (2, 3, 5, 1, 15) is ......
- (3) The maximum value of (2, 3, 5, 1, 15) is ......
- (4) .....is the middle value of the data set.
- (6) The median of the set of value (9, 8, 7, 3, 5, 1) is ......
- (7) The average of (3, 4, 6, 6, 7, 8) is ......
- (8) The lower quartile of the set of value (7, 6, 2, 9, 6, 0, 6) is ............
- (9) The upper quartile of the set of value (7, 6, 2, 9, 6, 0, 6) is ......
- (10) If the median of (k + 1, k + 2, k + 5, k + 4, k + 3) is 13, then  $k = \dots$
- (11) If the median of values (x 3, x 1, x 5) is 5, then x = ....
- (12) The shape shows the set of data in form of intervals is ......
- (14) Mean = sum of values .... number of values.
- (15) The mean of the data set (18, 35, 24, 6) is ......
- (17) The average of the data set (10, 10, 10, 10) is ......
- (18) If the sum of 5 numbers is 30, then the mean of these numbers is .....

(20) If the mean of (3, 5, x) is 4, then  $x = \dots$ 

(21) If the mean for 4 values is 10 then, the sum of these values is ......

(22) The ..... is the most occurs values of the data.

(23) A set of values with two modes are called .....

(24) The mode of (7, 10, 15, 7, 10, 13, 7, 15, 7) is ......

(25) If the mode of the values (2, 7, x - 3) is 2 then x = ...

(26) The ..... is value that lie away the other values.

(27) The outlier of the values: (7, 46, 47, 49, 50) is ......

(28) The two outliers of the values: (23, 205, 207, 200, 209, 1000) are \_\_\_\_\_ and \_\_\_\_

(29) The outlier in the opposite dot plot is .......  $\underbrace{+}_{1}$   $\underbrace{+}_{2}$   $\underbrace{+}_{3}$   $\underbrace{+}_{5}$   $\underbrace{+}_{6}$   $\underbrace{+}_{7}$ 

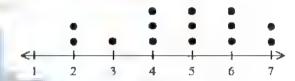
(30) If the outlier is smaller than other values, then the outlier..... the mean.

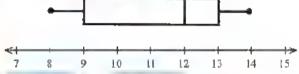
(31) If the outlier is greater than other values, then the outlier ..... the mean.

(32) The ..... is the better measure of central tendency for data set with outlier.

(33) The ..... is the better measure of central tendency for data set with no outlier.

- (34) Range = ..... ....
- (35) The difference between the greatest value and the smallest value in the data set is called .............
- (36) The range cannot be found using ......
- (37) The range of the numbers (16, 15, 9, 6) is ......





- (41) If the range of data set is 34 and the smallest value is 45, then the greatest number is ......
- (42) If 88 is the greatest number of data set and the range = 21, then the smallest number is .....

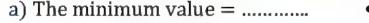
Math primary 6

First-Term .

## **Answer the following questions**

#### (1)From the opposite box plot, complete:

a) The minimum value = .....



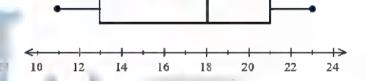


- c) The median  $= \dots$
- d) The lower quartile = ......
- e) The upper quartile = .....



#### From the opposite box plot, complete: (2)

- a) The minimum value = .....
- b) The maximum value = .....
- c) The median = ......
- d) The lower quartile = .....
- e) The upper quartile = .....

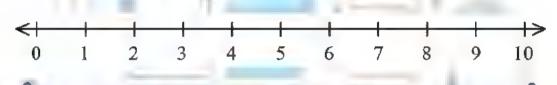


#### For the set of values: 10, 9, 8, 7, 6, 4, 2: (3)

- a) The minimum value = .....
- b) The maximum value = .....
- c) The median  $= \dots$
- d) The lower quartile = ......
- e) The upper quartile = .....

Draw a box plot for the values (5, 1, 9, 4, 3, 6, 2) **(4)** 

- a) The minimum value = .....
- b) The maximum value = .....
- c) The median = ......
- d) The lower quartile = .....
- e) The upper quartile = .....



By using the opposite dot plot find: **(5)** 

- a) The mean = .....
- b) The median = ..............
- c) The mode = .....
- d) The range = .....



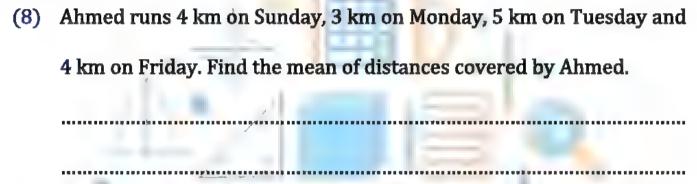
For the set of values: 2, 5, 4, 1, 2, 26, 2: (6)

Find

- a) The median  $= \dots$
- b) The mean = .....
- c) The mode = .....
- d) The range  $= \dots$
- e) The outlier = .....

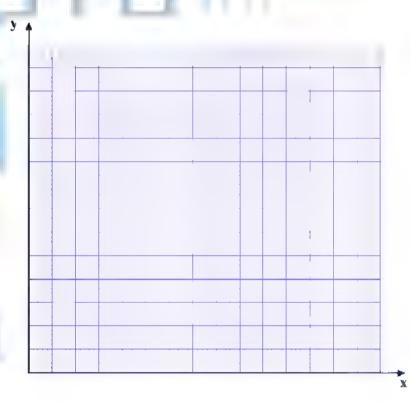
Math primary 6 ————	First-Term
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(7)	If Ali saves 17.50 L.E.,15.75 L.E, 29.75 L.E. from her salary. Find the
	mean of Ali savings.
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(9) The following table shows the daily wages of 50 workers of company.

Sets	Frequency
120-129	8
130-139	10
140-149	16
150-159	12
160-169	4





From: Unit 1, Lesson 1

To: Unit 3, Lesson 3

Final Revision

#### 1 Choose the correct answer

(1) In the equation:  $378 \div 25 = 15 \text{ R3}$ , the dividend is ......

A 378

**B** 25

© 15

**②** 3

(2) In the equation:  $544 \div 12 = 45 \text{ R4}$ , the divisor is ......

**A** 544

® 12

© 45

04

(3) In the equation: 5,  $314 \div 15 = 354 \text{ R4}$ , the quotient is ......

5.314

® 15

© 354

**1** 4

(4) In the equation:  $1,860 \div 32 = 58 \text{ R4}$ , the remainder is ......

**A** 1,860

® 32

© 58

**0** 4

(5) In the equation:  $2,150 \div 25 = 86$ , the remainder is .....

A 0

® 2,150

© 25

**®** 86

(6)  $820 \div 24 = 34 R \dots$ 

A 0

® 2

**6** 4

**6** 

 $(7) 6,280 \div 25 = \dots$ 

 $\bigcirc$  215 R5

® 251 R5

© 251

© 255 R1

(8) A school has 1,440 students which distributed between 24 classes equally. How many students are in each class?

**(A)** 40

**®** 50

© 60

**9 70** 

(9) Eslam saves 210 L.E weekly. How much did he save daily?

A 10

**B** 20

© 30

② 40

Mat	h primary 6 ————	F	irst-Term ——	
(10) The sma	allest prime number is			
<b>(A)</b> 0	<b>B</b> 1	© 2	<b>©</b> 3	
(11) The sma	allest odd prime number	'is		
<b>(A)</b> 0	® 1	© 2	<b>©</b> 3	
(12) The only	y even prime number is			
<b>A</b> 0	B 1	© 2	<b>©</b> 3	
(13) The con	nmon factor of all number	ers is		
<b>(A) (</b>	B1	© 2 ·	<b>©</b> 3	
(14) The con	nmon multiple of all num	bers is		
A 0	®1 A		<b>©</b> 3	
(15) which o	<mark>f the f</mark> ollowing is a prime	e number?		
20	® 15	© 7	<b>©</b> 9	
(16) which o	f the following is not a p	rime number?		
A 2	√£ <b>®</b> 5	© 7	<b>(D)</b> 9	
(17) The G.C.	F of 3 and 5 is			
	® 3	© 5	<b>©</b> 15	
(18) The L.C.	M of 3 and 5 is			
<b>(A)</b> 1	B3	©5 T.	/\ D15	
(19) The G.C.	F of 6 and 12 is			
<b>(A)</b> 1	® 6	© 12	<b>1</b> 72	
(20) The L.C.M of 6 and 12 is				
<b>(A)</b> 1	® 6	© 12	<b>©</b> 72	
2 —	— Eng-Eslam Emam —		1004041878	

- Math primary 6	;	First-Term			
(21) The G.C.F of 10 and 15 is					
<b>(A)</b> 10	® 15	<b>③</b> 30			
(22) The L.C.M of 10 and	15 is				
<b>(A)</b> 10	® 15 ©	<ul><li>9 30</li></ul>			
(23) In the opposite Ven	n diagram, the G.C.F is				
	B 2				
© 10	<b>1 2 30</b>	3 (2) 5			
(24) In the opposite Veni	n diagram, the L.C.M is				
<b>1</b>	<b>₽</b> ® 2	3 (2) 5			
© 10	<b>©</b> 30				
(25) In the opposite Veni	n diagram, t <mark>he G.C.F i</mark> s				
A 1	® 2				
© 7	<b>1 1 1</b>	2 7			
(26) In the opposite Veni	n diagram, the L <mark>.C</mark> .M is				
A 1	6 B 2				
© 7	<b>14</b>	(2)			
(27) from the opposite Venn diagram G.C.F =					
	<b>®</b> 210	7 (2) 5			
© 42	<b>②</b> 30	$\begin{pmatrix} 7 & \begin{pmatrix} 2 \\ 3 \end{pmatrix} & 5 \end{pmatrix}$			
(28) from the opposite Venn diagram L.C.M =					
<b>A</b> 6	® 210				
© 42	<b>©</b> 30	$\begin{array}{cccccccccccccccccccccccccccccccccccc$			
3 — Eng-Esia	am Emam ————	— 01004041878 —			

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First-Term

(29) the G.C.F of two relatively prime numbers is .....

 $\bigcirc$  0

**②** 2

**②** 3

(30) which of the following are relatively prime numbers? .....

(A) 2 and 10

<sup>®</sup> 4 and 9

(a) 4 and 6

1 8 and 6

 $(31) 35 + 42 = ___ (5+6)$ 

A 35

**B** 30

**6** 

(32) 16 + 24 = 8  $(2 + \underline{\hspace{1cm}})$ 

**A** 24

B 16

© 2

 $(33) 8 + 24 = 8 (\underline{\hspace{1cm}} + 3)$ 

A 1

**3** 2

**3** 

② 24

 $(34) 10 + 45 = 5 ( _ + _ )$ 

A 10,40

® 5,40

© 9,5

② 2,9

 $(35)\frac{2}{5} + \frac{3}{10} = \cdots$ 

 $\triangle \frac{5}{15}$ 

 $\odot \frac{5}{10}$   $\odot \frac{1}{2}$ 

 $(36)\frac{3}{4} - \frac{5}{8} = \cdots$ 

 $\bigcirc$   $\frac{1}{4}$ 

 $\bigcirc \frac{3}{8}$ 

 $(37)\ 5\frac{1}{2}+3\frac{1}{5}=\cdots$ 

 $\Theta 8^{\frac{2}{7}}$ 

©  $8\frac{1}{3}$ 

 $08^{\frac{2}{5}}$ 

 $(38) \ 2\frac{1}{4} - 1\frac{1}{2} = \cdots$ 

(A)  $1\frac{1}{2}$ 

 $\bigcirc 1\frac{3}{4}$ 

 $0^{\frac{4}{3}}$ 

**©** 1

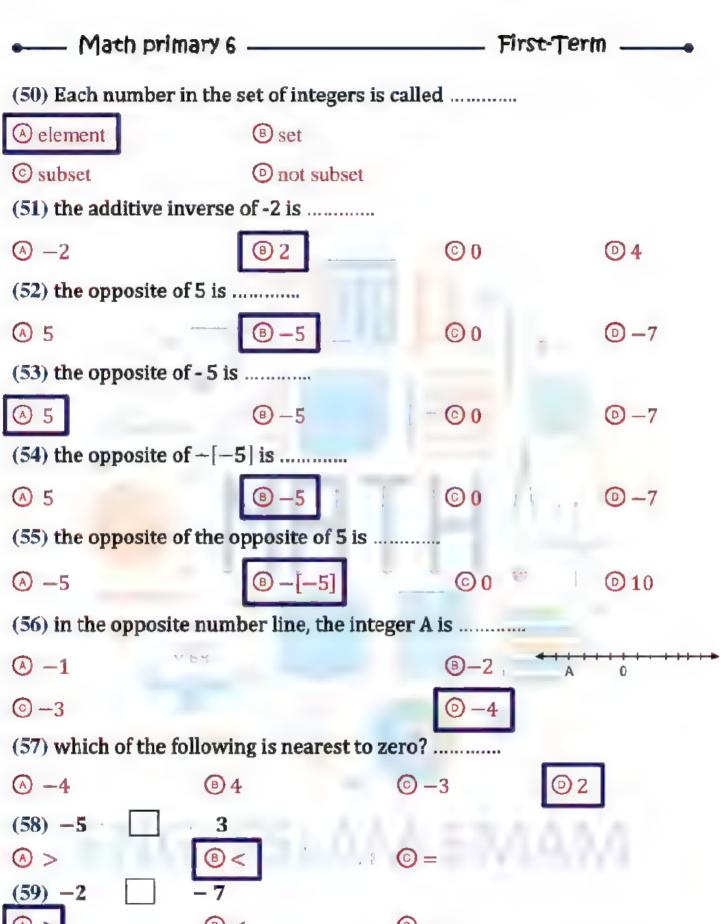
② 2

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(49) the integer which just before -1 is .....

- Eng-Eslam Emam

(B) (D



Math primary 6 ——	First-Term _
(61) All the following numbers a	re rational except
(A) 0 (B) 5	$ \bigcirc \frac{1}{7}                                  $
(62) All the following numbers a	re rational except
$\bigcirc 0 \qquad \bigcirc \boxed{\mathbb{B}^{\frac{2}{7}}}$	$ \bigcirc \frac{1}{7} \qquad \bigcirc \frac{4}{2-2} $
(63) the best subset of the numb	er 1 is
© counting number	(6) natural number
© integer	© rational number
(64) the best subset of the numb	er 0 is
© counting number	® natural number
© integer A A	e © rational number
(65) The best subset of the number	ber -5 is
O counting number	® natural number
© integer	© rational number
(66) The best subset of the numb	ber 4.854 is
© counting number	® natural number
© integer	o rational number
(67) - 4 set of counting n	numbers.
(A) belongs to	® does not belong to
© is a subset of	is not a subset of
(68) the opposite of - 5s	set of natural numbers.
(A) belongs to	(B) does not belong to
is a subset of	is not a subset of

Math prin	nary 6 ——		Fi	rst-Term _	
(69) – 2.5	set of intege	ers.			
A belongs to			® does not be	elong to	
is a subset of			is not a sub	set of	
(70) set of integers	set	of rationa	l numbers.		
A belongs to			® does not be	clong to	
is a subset of	© is a subset of		is not a subset of		
(71) set of natural	set	of counting	g n <mark>umbers.</mark>		
A belongs to	' /	O does not belong to			
is a subset of			is not a subset of		
(72) set of counting	g se	t of intege	rs.		
(A) belongs to	e .	1 1	odoes not be	elong to	
© is a subset of		1 1,	is not a subset of		
(73) the number 5	in the form	$\frac{a}{b}$ is	141		
$\bigcirc$ $\frac{1}{5}$	$\boxed{8\frac{5}{1}}$		© $-\frac{15}{10}$	© 0.5	
(74) the number $2\frac{3}{5}$ in the form $\frac{a}{b}$ is					
	$\mathbb{B}\frac{5}{0}$		© \frac{13}{5}	© 253	
(75) the number -1.5 in the form $\frac{a}{b}$ is					
$\bigcirc$ $-\frac{1}{5}$			© $-\frac{15}{10}$	$\bigcirc -5\frac{1}{10}$	
$(76)  \frac{3}{5}  \square$	<del>2</del> 7		-		
(A >	8 <		© =		

Math prima	ary 6	Fir	st-Term —	
(78) 0.7 0.65				
(A) > 1	(B) <	© =		
$(79)^{\frac{2}{8}}  \boxed{ 0.5}$				
A >	<b>B</b> <	© =		
(80) the greatest nu	mber from the follow	ing <mark>is</mark>		
$\Theta \frac{1}{2}$	$\bigcirc \frac{1}{3}$	© 1/4	$\bigcirc \frac{1}{12}$	
(81) the smallest nu	mber from the follow	ing is		
<b>⊘</b> 0.11	® 0.3	$\odot \frac{1}{2}$	<b>(b)</b> 0.15	
(82) is lying	between 3.1 and 3.2			
	® 3.21	<b>⊚ 3.20</b>	<b>③</b> 3.22	
(83) the <mark>absolute</mark> va	lues of 5 is			
♠ -5	<b>®</b> 5	© 0.5	<b>0</b> 0.125	
(84) the absolute values of $-\frac{1}{2}$ is				
$\bigcirc$ $-\frac{1}{2}$	(B) $\frac{1}{2}$	$\bigcirc -\frac{3}{2}$	① $3\frac{1}{2}$	
(85) the opposite of	$\left -\frac{1}{2}\right $ is			
$\bigcirc -\frac{1}{2}$	(B) $\frac{1}{2}$	© $-\frac{3}{2}$	$\odot 3\frac{1}{2}$	
(86) the absolute value of the opposites of $-2\frac{1}{5}$ is				
$\bigcirc 4^{\frac{2}{-}}$	<b>B</b> 0	$\bigcirc -2\frac{1}{2}$	(b) 2 <sup>1</sup>	

(87) the absolute values of opposites are ......

(A) equal

(B) different

© negative

1 other

Math pri	imary 6 ————	First-	Term ——
(88)  2  ×  -2  =	=		
<b>(A)</b> 0	<b>8</b> 4	© <b>-4</b>	<b>⊚</b> −1
(89)  -10  +  -	2     20  -  -10	l	
(A) >	® <	© =	
(56)  -7  >	******		
	®  -7	©  -8	<b>()</b>  -9
(90) which of the	following is an algeb	raic expression?	
∆ 44 − 3 + 4	1 4 / 1	® 3 + 7 - 0	
© $15a - 32$		© 2(3 + 14)	
(91) which of the	following is a numer	ic expression?	43
♠ 46z − 25		(a) $3x + 7 - 0$	
$\odot$ 15 $a$ + 2 $x$		② 2(3 + 14)	
(92) The constant	t in the expression 2.	x + 5 is	
♠ 2	√ E <b>®</b> 2 <i>x</i>	$\odot$ 2x + 5	<b>©</b> 5
(93) The coefficie	ent in the expression	2x + 5 is	
A 2	<b>B</b> 2 <i>x</i>	$\odot 2x + 5$	<b>©</b> 5
(94) The constant	t in the algebrai <mark>c ex</mark> p	ression 5 + 3y + 2x + 3y + 2x + 3y + 3y + 3y + 3y + 3y + 3y + 3y + 3	1 are
♠ 5,3,2,1	® 3,2 · □ · □	· © 3,2,1	<b>©</b> 5,1
(95) The coefficie	ents in the algebraic e	xpression $5 + 3v + 2$	r + 1 are

® 3,2 **③** 3,2,1 ♠ 5,3,2,1 **©** 5,1

(96) Which of the following are like terms?

A 25,52 1 2b, 2c ⊚ ab, aC  $\bigcirc n, m$  (97) The number of terms of the expression: 5 - 2m - 3m + 4 is ... terms.

**(A)** 5

(B)-2

(0) - 3

(98) the number of like terms in the expression 3 + 2x + 5 is ......

(A) 1

© 3

(D) 4

(99) 2 + 3[ + 5, complete to get a numeric expression.

 $\bigcirc$  a

- © 30 : 5
- $\bigcirc b + c$

(100) we subtract 5 from the number x, we get ......

- (A) 5x
- $\bigcirc$  B 5-x
- $\bigcirc x + 5$

(101) Three times a number less two is .....

- $\bigcirc$  3x + 2
- (B) 3x 2
- $\bigcirc 2x3x$

(102) Three times a number less than two is ......

- $\triangle 2 + 3x$
- (B) 3x 2
- $\bigcirc$  2x3x
- ① 2 3x

(103) Subtracting 3 from double a number .....

- $\bigcirc n-3$
- $\oplus 2n 3$
- (c) 3n + 2
- $\bigcirc$  5n

(104) Twice the difference of a number and 5 is ......

- $\triangle 2y + 5$
- (B)  $2\nu 5$
- ©2 (y + 5)
- ① 2(y-5)

(105) The algebraic expression "Twelve less than three groups of y" is. ----

- $\triangle 12 3y$
- ⓐ 3y 12
- © y 12
- ① 12 v

(106) Laila saved n L.E. and her mother gave her 5 L.E., she will have ... L.E.

- $\bigcirc n-5$
- $\bigcirc n+5$
- $\bigcirc$  5n

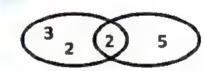
 $\bigcirc 5-n$ 

## 2 complete

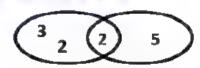
- (1)  $8,529 \div 25 = 341R$  ....
- (2) The divisor in the equation:  $16,692 \div 52 = 321 \text{ is...}$
- (3) The smallest prime number is ...2.....
- (5) The only even prime number is  $\mathbf{Z}$
- (6) The common factor of all numbers is .....

- (9) The L.C.M of 5 and 7 is ...3.5.

- (12) The G.C.F of 6 and 8 is .... 2....
- (13) In the opposite Venn diagram , the G.C.F is ..... 2....



(14) In the opposite Venn diagram, the L.C.M is .....



### - Math primary 6

First-Term \_\_\_\_

(15) In the opposite Venn diagram, the G.C.F is ....



(16) In the opposite Venn diagram, the

, the L.C.M is .....6....



(17) The G.C.F of two relatively prime numbers is ..........

(18) 8(5+4) = 40 + 32

(19) 
$$18 + 9 = 9 \left( \frac{2}{4} + \frac{1}{4} \right)$$

 $(20) \ 5(2+\frac{7}{2}) = 10+35$ 

(21) 9 
$$(1+2) = 9 + 18$$

$$(22) \quad \underline{3} \quad [5+2] = 15+6$$

$$(23) \ \frac{1}{5} + \frac{1}{3} = \frac{8}{15}$$

$$(24) \ \frac{3}{7} + \frac{1}{6} = \frac{25}{42}$$

$$(25) \frac{1}{4} + \frac{1}{12} = \frac{4 \div 4}{12} \div \frac{1}{4} \frac{1}{3}$$

$$(26) \ \frac{5}{6} - \frac{7}{10} = \frac{4 \div 2}{30 \div 2} \frac{2}{15}$$

$$(27) \ \frac{5}{6} - \frac{3}{8} = \frac{11}{24}$$

(28) 
$$10\frac{1}{2} - 5\frac{1}{3} = ...5\frac{1}{6}$$

•	- Math primary 6	First-Term
(29)	Each number in the set of integers is callede.	ement
(30)	The smallest counting number is 1	
	The smallest natural number is	
(32)	The smallest positive integer number is	
(33)	The greatest negative integer is	
(34)	The greatest non-positive integer is	
(35)	The smallest non-negative integer is	
(36)	The number O is neither positive nor nega	tive.
(37)	The integer which just next – 1 is	
(38)	The integer which just before – 1 is	
(39)	The integers between -3 and 2 are 2 6 -	16061
(40)	The number of integers between -3 and 2 is	Integers
(41)	The opposite of 3 is	
(42)	The opposite of -3 is	
(43)	The opposite of zero is	
(44)	The distance between the opposite of 4 and 0 on equals units.	the number line
(45)	The distance between the number 2 and its oppo	osite on the number
	line equals units.	

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First-Term .

(46) The best subset of the number 25 is ... Counting

(47) The best subset of the number 0 is .. Na. tural

(48) The best subset of the number - 1 is ... Integers

(49) The best subset of the number - 1.5 is .... Rational

(50) |-7|=...**7**...

(51)  $|0| = ... \bigcirc$ 

(52) |-3|+|2|=...5...

 $(53) |-3| \times |-5| = 1.5$ 

(54)  $|-2| \times |0| = 0$ 

(55) positive integer negative integer

(56) zero negative integer

**(58)** 3 **\(\right\)** -7

(59) −12 **∠**√-4

(60) 2.5

(61) The additive invers of 5 = -5

(62) |-3 | |-1 |

(63) |-1| = -[-1]

(64) [-5]

(65) [-2.71]

**(66)** |-10| + |-2| **≥** |20| - |-10|

•	— Math primary 6 —————	First-Term ——
(68)	The constant in the expression $3y + 2x - 5$ is	-5
(69)	The constant in the expression $2x + y$ is $\frac{1}{2}$	ne
(70)	The coefficient in the expression $3y + 2x - 5$ is	362
(71)	The coefficient in the expression $1.5 + 4 - 5$ is	none
(72)	The verbal expression from " $x + 2$ " is <b>X</b> The verbal expression from " $y - 5$ " is . <b>XS</b>	increased by 2
(73)	The verbal expression from "y $-5$ " is $X$	decreased by 5
<b>(74)</b>	The verbal expression from "5x" is	times X
(75)	The verbal expression from "4 $-3$ n" is $4$	minus stimes
(76)	The algebraic expression for "a number less 7"	is <b>X-</b> . <b>7</b>
(77)	The algebraic expression for "a number less that	an 7" is <del></del>
	The algebraic expression for "Subtract 3 from t	

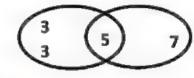
- (79) The algebraic expression for is 4 (X+7) Four times the sum of a number and seven
- (80) The algebraic expression for

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_	M	ath	pri	mary	6

# 3 Answer the following questions

### (1) Using the following Venn diagram, complete

a- The two numbers represented in the Venn diagram are -45 and ----

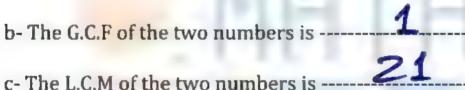


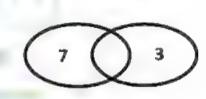
d- Are the two numbers relatively prime numbers? (Yes - No)



### (2) Using the following Venn diagram, complete

a- The two numbers represented in the Venn diagram are - 7 and - 3





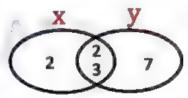
d- Are the two numbers relatively prime numbers? (Yes - No)



### (3) Using the following Venn diagram, complete

$$x = 12$$

$$y = ....4.2$$

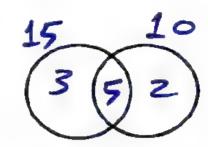


The GCF 
$$=$$
 ...  $6$ ...

The LCM = 
$$...$$
8...4

The expression = 
$$..6.(..2. + .7...)$$

(4) Use Venn diagram to find G.C.F and L.C.M of: 15 and 10



$$15 = 3 \times 5$$

$$10 = 5 \times 2$$

(5) Order the given set of numbers from least to greatest.

$$2.1, 1.4, -3\frac{1}{4}, -1\frac{7}{8}, 2\frac{1}{2}$$

-3 \frac{1}{4} 6 - 1 \frac{7}{8} 6 1 \cdot 4 6 2 \cdot 1 6 2 \frac{1}{2}

(6) Ahmed has 10 L.E. in her money box, he will save 5 L.E. daily.

a- What algebraic expression represent this situation?



b- How much money in the money box after 3 days?

 $10 + 5 \times 3 = 25 \text{ L.E.}$ 

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First-Term \_\_\_\_

(7) Find two rational numbers lies between:  $\frac{3}{4}$  and  $\frac{4}{5}$ 

 $\frac{15}{20} < \frac{16}{20}$  x 10 Two Rational  $\frac{150}{200} < \frac{160}{200}$   $\frac{151}{200} < \frac{155}{200}$ 

(8) Find two rational numbers lies between: -1.2 and -1.3

-1.206 - 1.30 -1.216 - 1.25

(9) Represent the numbers on the number line.

-3, 3, 5, 0, -2, -1



(10) A factory produces 1,645 pieces of cloth weekly.

How many pieces did the factory produce daily?

1645 - 7 = 235 Pieces



From: Unit 3, Lesson 4

**<u>To</u>**: Unit 5

Final Revision

### 1 Choose the correct answer.

(1) In 2<sup>3</sup>: the base is .......

<b>A</b> 2	
------------	--

**B** 3

© 2<sup>3</sup>

**®**8

(2) In 23: the exponent is .......

A) 2



© 2<sup>3</sup>

**®** 

(3) In 74: 4 is called .......

(A) exponent

**B** power

© index

(1) all of them

(4) In ...... 4 is called the base and 2 is called the exponent.

A) 2



08

① 16

(5) If the base is 5 and the exponent is 3, then the exponential form of the number is .......

A 15

**®** 5<sup>2</sup>

© 3<sup>5</sup>

⊕ 5³

(6) 3 to the power of  $4 = \dots$ 

**A** 3

**B** 4

© 12

® 81

 $(7) \ 2 \times 2 \times 2 =$ 

A) 21

**B** 2<sup>2</sup>

© 2<sup>3</sup>

© 24

 $(8) 5^4 = \dots$ 

 $\triangle$  5  $\times$  5  $\times$  5

 $\textcircled{8}5 \times 5 \times 5 \times 5$ 

© 4 × 4 × 4

① 5 × 4

 $(9) y \times y = \dots$ 

(A) y

8 2y

ⓒ y<sup>2</sup>

(D) (I)

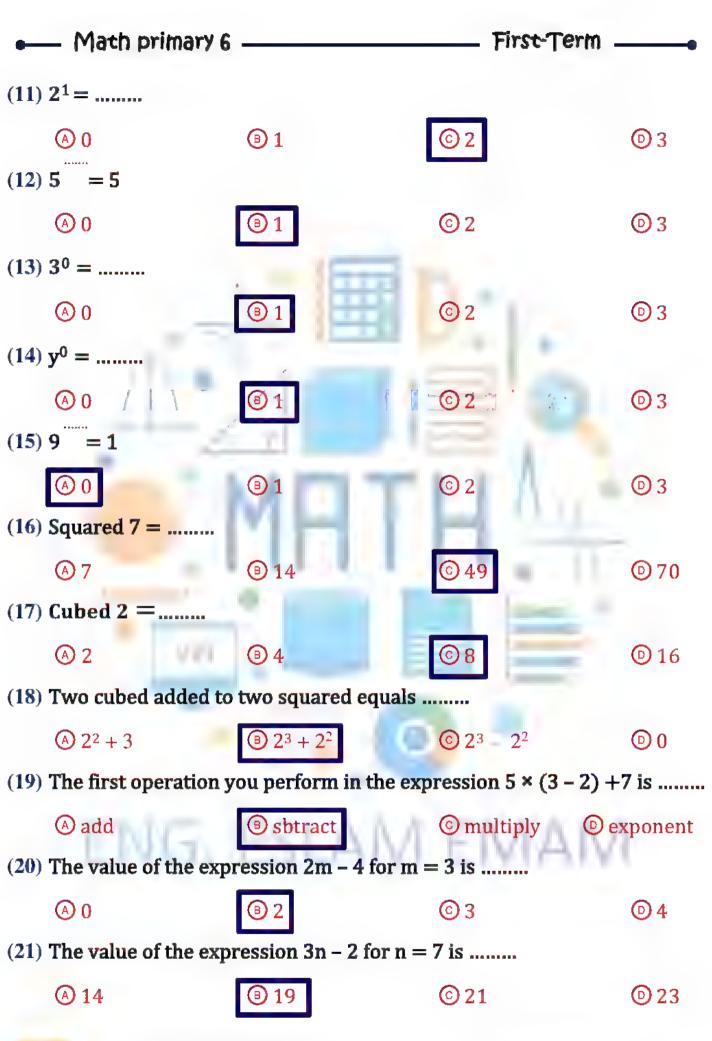
 $(10) \ 1^{100} = \dots$ 



**10** 

**©** 100

① 1000



(22) The value of the expression  $x + 3^2$  for x = 1 is ......

(A) 7

**16** 

① 12

(23) Which of the following expression has the same value of 3x + 5 at x = 3

 $\bigcirc$  3(x + 1) + 5

(a) 4x + 1

 $\odot 5x + 3$ 

(24) If x + 2 = 9, then x = ....

(A) 2

**B** 5

**0**9

(25) If y + 3 = 5, then 4y = ....

**(B)** 4

© 22

(26) If k + 1 = 5, then twice k = .....

(A) 1

B) 4

© 5

(27) If x + 4.5 = 5.7, then x = 3.3.3

A 1.2

(B) 1.3

© 9.2

① 10.2

(28) If y - 3 = 10, then y = ...

(A) 12

**13** 

© 14

① 15

(29) If  $m - 3^2 = 1$ , then  $m = \dots$ 

**B** 3

© 1

**(D)** 6

(30) If  $z \times 6 = 48$ , then z = .....

(31) If 5y = 35, then  $y = \dots$ 

(A) 6

**©**8

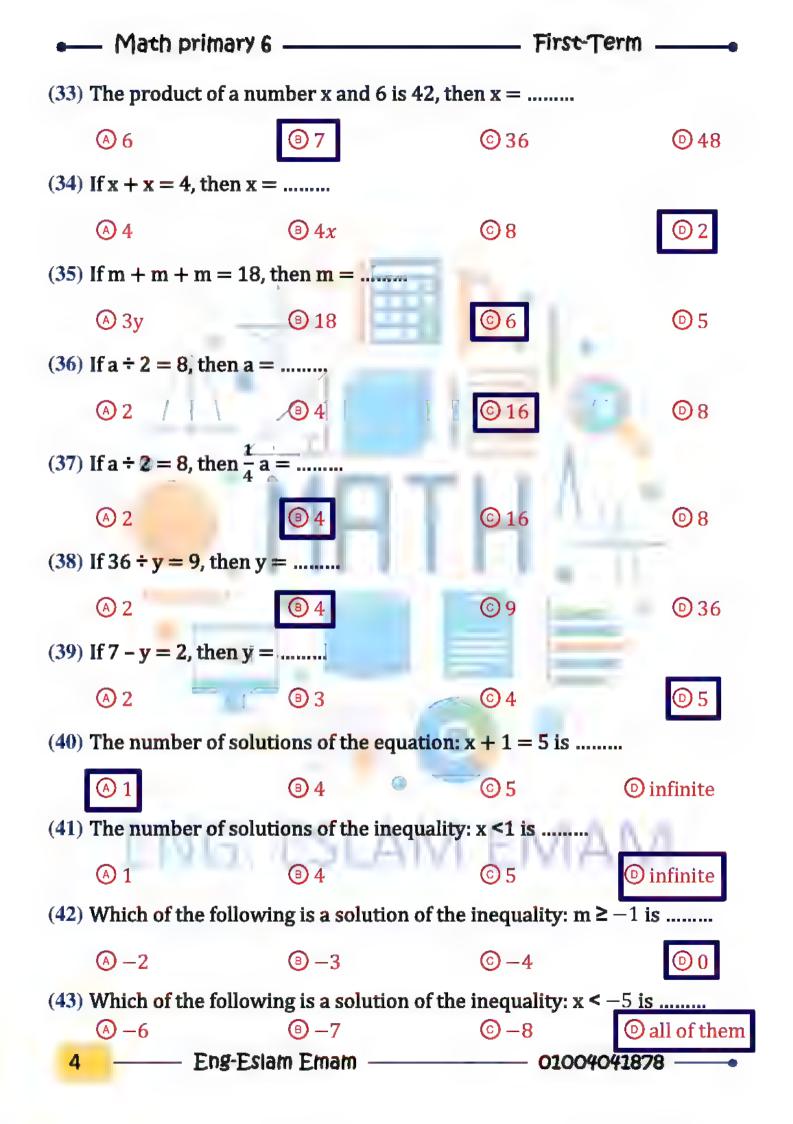
© 35

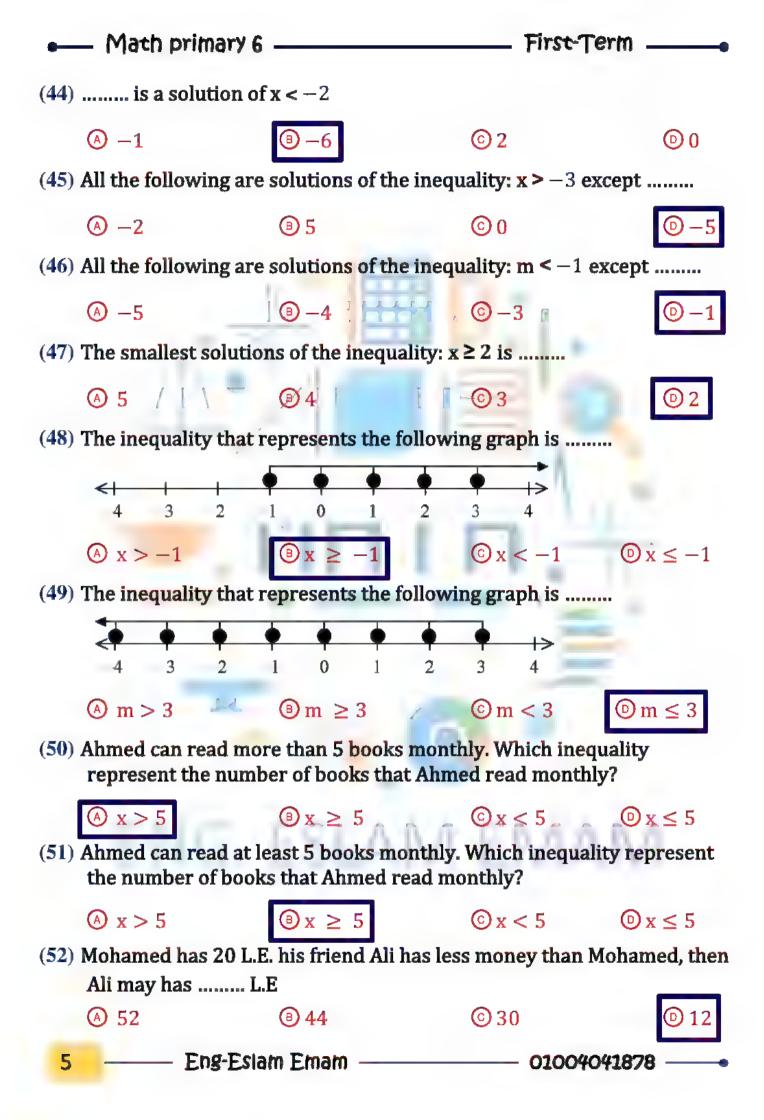
(32) If 5a = 0, then a = .....

**B** 1

**②** 2

© 3





(53) Which of the following is an equation?

 $\bigcirc 20 + 2x$ 

<sup>®</sup> 2 times y

 $\bigcirc$  3 + a

① 2 + 3y = x

(54) In the equation: x = 4y + 3 the dependent variable is .......

- .. 03

(55) In the equation: x = 4y + 3 the independent variable is .......

 $\triangle$  x

- © 3

(56) The algebraic equation of "8 more than s equals t " is .......

 $\triangle 8s = 1$ 

8t = s

 $\bigcirc 8 \pm t = s$ 

(57) The algebraic equation of " m equals the product of n and 3" is ........

 $\triangle$  m = 3n

 $\bigcirc m = 3 + n$ 

- $\bigcirc n = 3m \vee M$
- $\bigcirc n = 3 + m$

(58) The algebraic equation of "4 times c is added to 7 equals k" is ........

(A) 4c + 4 = k

(B) 7k + 4 = c

 $\bigcirc$  4c + 7 = k

① 4k + 7 = c

(59) The algebraic equation of " m equals twice n increased by 5 " is .......

 $\bigcirc$  m = n + 5

 $\bigcirc m = 2n$ 

m = 2n + 5

(60) The word phrase for the equation "x = 4 + y" is .......

- A x equals 4 more than y.
- ⓐ x equals 4 times y.

© x equals 4 less than y.

① x equals 4 decreased by y.

- Math	primary 6 ————	First-Te	erm —
(61) The word	phrase for the equation "	m = 2n " is	
(A) m equa	als 2 more than n.	1 m equals 2 times	n.
© m equa	als 2 less than n.	n equals 2 decrea	nsed by n.
(62) In the equ	ation: $y = 2 + x$ , if $x = 3$ ,	then $y = \dots$	
A 2	<b>B</b> 3	1, © 4	<b>©</b> 5
(63) In the equ	ation: $y = 3x$ , if $x = 5.1$ , the	nen y <mark>=</mark>	
⊗ 8.1	® 53.1	© 15.3	<b>18.3</b>
(64) In the equ	ation: $y = 2x$ , if $y = 8$ , the	n x =	
(A) 2	<b>B</b> 4	© 6	<b>©</b> 8
(65) ln the equ	ation: y = x + 1, if the inp	out is 1, then the outpu	t is
A 2	<b>a</b> 4	<b>©</b> 6	<b>©</b> 8
(66) In the equ	ation: y = x - 6, if the out	put i <mark>s 2, then the</mark> input	is
A 2	® 4	<b>©</b> 6	<b>©</b> 8
(67) The order	ed pair which satisfies th	$e \frac{\text{equation: } y = x + 1 \text{ i}}{}$	s
<b>(0,2)</b>	(1,1)	© (1,2)	(2,1)
(68) The order	ed pair which satisfies th	e equation: $y = 2x$ is	
(2,5)	(a) (3,0)	© (0,1)	<b>(0,0)</b>
(69) The order then a =	ed pair (2, a) satisfies the	e equation: $y = 2x + 1$ ,	M
A 2	<b>a</b> 3	<b>©</b> 4	<b>©</b> 5
(70) The order then b =	ed pair (2, b) satisfies the	e equation: $y = x^2 - 2$ ,	
A 2	<b>a</b> 3	© 4	<b>©</b> 5
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## 2 complete

- (1) In  $3^5$ : the base is .3... And the exponent ....
- (2) In 5.... 5 is called the base and 3 is called the exponent.
- (3) In 42: 4 is called Base, and 2 is called Exponent
- (5) Area of the square whose side length 5 cm in the exponential form is ...... cm<sup>2</sup>
- (7)  $3^4 = ... 8.1$
- $(8) \quad 2 \times 2 \times 2 \times 2 = 1.2...$
- $(9) \quad y \times y \times y = y$
- (10) 5 squared =  $...5^2 = 25$
- (11) 2 cubed = ..... = 8
- (12) The value of the expression  $2m 2^2$  for m = 2 is 2e
- (13) The value of the expression  $9 + (p^2 3) \div 2$  for p = 5 is . 20...
- (14) If x + 3 = 12, then x = ....
- (15) If  $x + \frac{1}{3} = 3$ , then x = ... 2 ... 3

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(16) If m - 3 = 7, then 2m = ...20..

(17) If 
$$3y = 12$$
, then  $5y = ...26$ ...

(18) If 
$$k \div 3 = 5$$
, then  $k = ... 15$ .

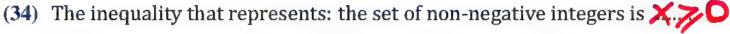
(19) If 
$$a \div 4 = 3$$
, then  $3a = .3.6$ ..

(20) If 
$$\frac{y}{3} = 5$$
, then  $y = 4.5$ .

(21) 
$$3y - 5 = 7$$
, the  $y = \frac{14}{3}$ ...

(22) 
$$3x + 8 = 29$$
, then  $x \neq ... \neq ... \neq ...$ 

- (23) The number of solutions of the equation: x + 1 = 5 is ... Solution.
- (24) The number of solutions of the inequality: x < 1 is ... In finite
- The inequality that represents: all values "greater than -1" is X.>-1
- The inequality that represents: all values "greater than or equal -1" is ......X > 54 1
- (27) The inequality that represents: all values "less than 2" is .X. 2
- (28) The inequality that represents: all values "less than or equal 2" is  $X \le 2$
- The inequality that represents: the set of counting numbers is
- The inequality that represents: the set of natural numbers is X.. > 0
- (31) The inequality that represents: the set of posit
- The inequality that represents: the set of negative integral
- (33) The inequality that represents: the set of non-positive integers is



(35) The inequality that represents: the following graph is .X...>



(36) In the equation: y = x + 2 the dependent variable is



(38) The algebraic equation of " m equals twice n increased by 25 " is ........

(39) The algebraic equation of "the product of 2 and y plus 22 equals x" is ..... 
$$27 + 22 = x$$

is .....2
$$f + 22 = X$$

(40) The word phrase for the equation " $y = 2x$ " is .......

a more than 5 times b equals C

(41) The word phrase for the equation " $a + 5b = c$ " is .......

(42) In the equation: 
$$y = 2x + 5.2$$
, if  $x = 2$ , then  $y = 4.2$ .

(43) In the equation:  $y = x + \frac{1}{3}$ , if x = 5, then  $y = ... = \frac{1}{2}$ 

(44) In the equation: y = x + 1, if the input is 1, then the output is .2...

(45) In the equation: y = 3x, if the output is 9, then the input is ...3...

(46) The ordered pair (1, c) satisfies the equation: y = 2x + 1, then c = ...

(47) (4, ...6...) satisfies the equation:  $y = \frac{1}{2}x + 4$ 

(48) Complete the following table according to the equation y = 2x + 1

X	0	1	2	3
у	1	3	5	7
	1			-

(49) If the equation: y = x + 3 is represented by the table, then a = ....



(50) The equation which represents the table is  $\frac{1}{2} = \frac{2}{3}$ 

X	0	2	4	6
у	0	4	8	12
1 2/5	11			

# ENG. ESLAM EMAM

•—	M	ath	pri	mary	6
		4-11	Dec 11	111417	v

## Answer the following questions.

1) Use the order of operations to simplify.

a. 
$$(15-9) + 3 \times 4^2 \div 2$$



b. 
$$40 + 5(3^2 - 7) + 10$$



2) Evaluate the expression:  $5x^2 + 8 \div (6 - 4) \div 2$  at x = 3



3) Check the two expressions are equivalent or not.

$$5x + 3$$
 and  $3x + 5$  Not equivalent  
 $5x + 3$  and  $3x + 5$   $5x = 2$   
 $5x + 3 = 8$   $3x + 5 = 8$   $3x + 5 = 8$   $3x + 5 = 8$   $3x + 5 = 11$ 

4) Solve each of the following questions:

a) 
$$5t = 20$$

t=4

b) 
$$7 + c = 17.8$$

C=10.8

c) 
$$2x + 3 = 15$$

2x = 126 x = 6

5) Represent the inequality  $x \ge 1$  on the number line in the set of integers.

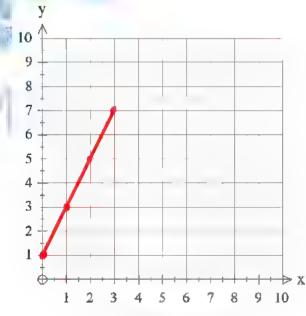


6) Write an equation use the variables x and y, where x is the independent,

7) Complete the following table, then make the graph.

The equation: y = 2x + 1

X	0 1	1	2	3
у	11	3	.5	7





From: Unit 6

**To**: Unit 7

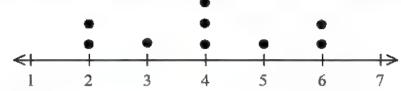
Final Revision

### Choose the correct answer

(1)is a cate	gorical data.		
(A) date of birth	n ® age	© Favorite sport	(D) weight
(2) is a num	erical data.		
(A) Your name	® age	© Favorite color	Favorite sport
(3) Your name is	data.	## 1 ) * i	
(A) numerical	® categoric	al © quantitative	otherwise
(4) Your age is	data.		
(A) numerical	® categoric	al © descriptive	<b>otherwise</b>
(5) All the following	data are nume	erical except	1
(A) height	® age	© color	© weight
(6) All the following	dața are descr	iptive except	-11
(A) name	® sport	© color	① age
(7) Theis th	ie middle value	of the data set.	
(A) Mode	® Mean	© Median	① Outlier
(8) The minimum of	the values (4,	7, 8, 1, 3) is	
A <u>1</u>	<b>B</b> 3	@ <b>@ 4</b>	<b>©</b> 7
(9) The maximum o	f the values (4,	7, 8, 1, 3) is	TANT
<b>A</b> 1	<b>®</b> 3	© 4	<b>©</b> 8
(10) The median of	the values (4, 7	7, 8, 1, 3) is	
(11) The median of	B 3	<u> </u>	<b>©</b> 7
(11) The median or (A) 2	the values (2, 3	3, 5, 7, 8, 10) is © 5	 <u>© 6</u>

(12) The median of the following data which represented by the dot plot

is .....



A) 2

**B** 3

**©** 4

(P) 5

(13) The lower quartile of the values (5, 7, 9, 10, 12, 15, 20) is ......

A 7

**10** 

© 15

(D) 9

(14) The upper quartile of the values (5, 7, 9, 10, 12, 15, 20) is ......

→ ® 10

@ <u>15</u>

(D) 9

(15) If the median of (a + 1, a + 2, a + 3) is 10, then a = ...

A 1

**B** 2

© 3

(16) The median of the values represented on the opposite box plot is .....



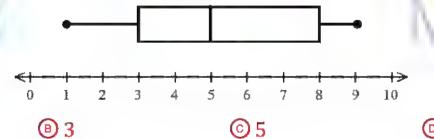
(A) 2

**B** 3

**©** 5

(D) 6

(17) The minimum of the values represented on the opposite box plot is ......

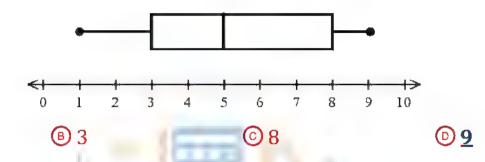


A 1

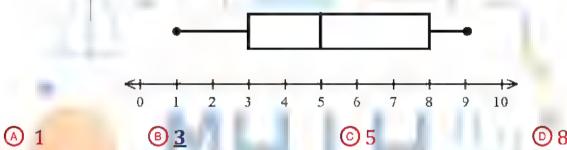
**® ®** 

A 1

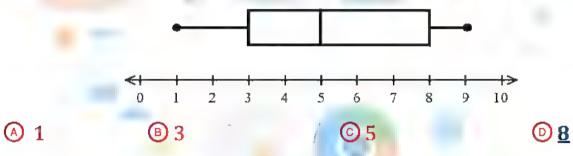
(18) The maximum of the values represented on the opposite box plot is ......



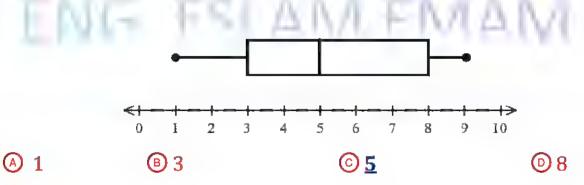
(19) The lower quartile of the values represented on the opposite box plot is ......



(20) The upper quartile of the values represented on the opposite box plot is ......



(21) From the opposite box plot the difference between the upper quartile and the lower quartile = ......



- Math primary 6 —		First-Term			
(22) Which display makes it easier to see the median?					
(A) histogram	<b>B</b> box plot	© dot plot	📵 bar graph		
(23) The shape show	ws the set of data in t	he form of inter	vals is		
(A) histogram	® box plot	© dot plot	🛈 bar graph		
$\frac{\text{sum of values}}{\text{numer of value}}$		D.			
Mode	® Mean	© Median	(D) Outlier		
(25) Mean = sum of	values number of	values.			
1 1 + <u>A</u>	<b>®</b> – <b>F</b>	Ø <b>★</b> → → → → → → →	<u> </u>		
(26) The mean of th	e data set (7, 13, 6, 2	) is	Λ		
A 13	® Z	© 6	<b>©</b> 2		
(27) The average of	the data set (3, 9, 5,	16, 7) is			
A 6	® 7	© <u>8</u>	© 9		
(28) The balance of the following data is					
A 1	B 3	© 4·	<b>©</b> 6		
(29) The mean of th	e following data	2 3 4 5	• • • 6 7 is		
A 1	<b>B</b> 3	<b>© 4</b>	<b>©</b> 6		
(30) If the sum of 4 numbers is 20, then the mean of these numbers is					
A 4	® 20	© <u>5</u>	<b>©</b> 6		
4 — Eng	3-Esiam Emam ——	o:	1004041878		

Math prima	ary 6	First-Term					
(31) If the total score of 5 students in math is 60 then, the mean is							
A 5	® 6	<b>©</b> 10	<u> 12</u>				
(32) If the mean of (	(32) If the mean of (8, 6, x, 5) is 5, then $x = \dots$						
<b>A</b> 4	<b>B</b> 3	© 2	<u>• 1</u>				
(33) If the mean for	5 values is 9 then, the	sum of these values	is				
<b>A</b> 25	® 35	© <u>45</u>	<b>©</b> 55				
(34) The is t	he most occu <mark>r</mark> s value	s o <mark>f the data.</mark>					
Mode	® Mean	© Median	(D) Outlier				
(35) A set of values	with two modes are c	alled					
(A) non-modal	® bimodal	© trimodal	nultimodal				
(36) The mode of (5	, 3, 10, 4, 11, 3) is						
A 3	® 4	<b>©</b> 5	© 10				
1							
(37) The mode of the following data $\begin{pmatrix} 1 & 2 & 3 & 4 & 5 & 6 & 7 \end{pmatrix}$ is							
A 1	<b>®</b> 3	<u>04</u>	<b>©</b> 6				
(38) If the mode of t	he values (10 <mark>, 2</mark> , x + 6	6) is $10 \text{ then } x =$					
A 2	_	©6	<b>®</b> 8				
(39) If the mode of the values (2, 5, 3 - y) is 2 then $y =$ (a) 5  (b) 7							
(40) The is value that lie away the other values.							
Mode  (41) The outlier of the	Mean howalussi (24, 22, 22)	Median     20) is	outlier outlier				
(41) The outlier of the values: (24, 23, 22, 3, 28) is							
	® <u>3</u>	<b>©</b> 5	<b>1</b> 5				
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Math primary 6 ————		First-Term			
(42) If the outlier is smaller than other values, then the outlier the					
mean.					
(A) increase	(B) decrease	© stay the same © otherwise			
(43) If the outlier	is greater than ot	her values, then the outlier the			
mean.					
(A) increase	® decrease	stay the same 🔘 otherwise			
(44) Which is bett	er to use if the <mark>d</mark> o	t plots ar <mark>e distri</mark> buted in one side of the			
graph?	M				
(A) median	® Mean	© either mean or median			
(45) Which is bett	er to use if the do	t plots are distributed in two side of the			
graph witho	ut symmetry?				
@ median	® Mean	© either mean or median			
(46) Which is bett	er to use if the do	t plots are distributed symmetrically on			
the graph?					
(A) median	® Mean	© either mean or median			
(47) The better m	easure of the cent	tral tendency of the following data set			
is		•			
	•				
ENG	<del>&lt; </del> 0				
Median	® Mean	© either mean or median			
(48) The is the better measure of central tendency for data set					
with outlier.					
(A) median	Mean	© otherwise.			
6 — E	ng-Eslam Emam	——————————————————————————————————————			

- Math primary 6 —		First	First-Term		
(49) Theis	s the better measure	of central tendency	for data set		
with no outli	er.				
(A) median	® Mean	© otherwise.			
(50) = the	greatest value - the	smallest value.			
<b>(A)</b> Mode	® Mean	<b>O</b> Median	Range		
(51) Range = max	min.	3 1			
<b>A</b> +	® <u>=</u>	©×	(D) ÷		
(52) The difference	e between the greate	st value and the sm	allest value in		
the data set is	s called				
(A) Mode	® Mean	© Median	© Range		
(53) The range of t	the set of values (7, 3	, 6, 9, 5) is			
<b>A</b> 3	® 4	© <u>6</u>	<b>©</b> 12		
(54) If the values of data set start from 20 to 50, then the range =					
A 20	® <u>30</u>	© 40	© 50		
(55) The range of t	he following data	2 3 4 5	6 7 is		
A 1	® 4	© <u>5</u>	<b>©</b> 6		
(56) The range of the following data is					
<b>A</b> 3	® 5	© 7	<b>B @</b>		
(57) The range can	not be found using	•••••			
(A) box plot	(B) dot plot	o histogram	otherwise		
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### 2 complete

- (1) The type of statistical questions are numerical data and categorical data
- (2) The minimum value of (2, 3, 5, 1, 15) is **1**
- (3) The maximum value of (2, 3, 5, 1, 15) is 15
- (4) median is the middle value of the data set.
- (5) The median of the set of value (5, 7, 8, 3, 6) is 5
- (6) The median of the set of value (9, 8, 6, 3, 4, 1) is **5**
- (7) The average of (3, 4, 6, 6, 7, 8) is **6**
- (8) The lower quartile of the set of value (7, 6, 2, 9, 6, 0, 6) is 2
- (9) The upper quartile of the set of value (7, 6, 2, 9, 6, 0, 6) is  $\frac{7}{2}$
- (10) If the median of (k + 1, k + 2, k + 5, k + 4, k + 3) is 13, then k = 10
- (11) If the median of values (x 3, x 1, x 5) is 5, then x = 8
- (12) The shape shows the set of data in form of intervals is histogram
- (13) Mean =  $\frac{\text{sum of values}}{\text{numer of values}}$
- (14) Mean = sum of values number of values.
- (15) The mean of the data set (18, 35, 24, 6) is 20.75
- (16) The mean of the data set (3, 5, 4, 7, 6) is **5**
- (17) The average of the data set (10, 10, 10, 10) is 10
- (18) If the sum of 5 numbers is 30, then the mean of these numbers is 6

- (19) If the total score of 4 students in math is 40 then, the mean is 10
- (20) If the mean of (3, 5, x) is 4, then x = 4
- (21) If the mean for 4 values is 10 then, the sum of these values is 40
- (22) The mode is the most occurs values of the data.
- (23) A set of values with two modes are called bimodal
- (24) The mode of (7, 10, 15, 7, 10, 13, 7, 15, 7) is **7**
- (25) If the mode of the values (2, 7, x 3) is 2 then x = 5
- (26) The outlier is value that lie away the other values.
- (27) The outlier of the values: (7, 46, 47, 49, 50) is 7
- (28) The two outliers of the values: (23, 205, 207, 200, 209, 1000) are 23 and 1000
- (29) The outlier in the opposite dot plot is  $\frac{1}{1}$
- (30) If the outlier is smaller than other values, then the outlier decrease the mean.
- (31) If the outlier is greater than other values, then the outlier increase the mean.
- (32) The <u>median</u> is the better measure of central tendency for data set with outlier.
- (33) The mean is the better measure of central tendency for data set with no outlier.

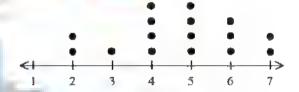
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First-Term

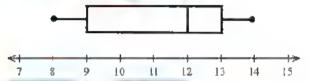
- (34) Range = max min
- or

greatest value - smallest value

- (35) The difference between the greatest value and the smallest value in the data set is called <u>range</u>
- (36) The range cannot be found using histogram
- (37) The range of the numbers (16, 15, 9, 6) is 7
- (38) If the values of data set start from 30 to 60, then the range of this data = 30
- (39) The range of the following data is 5



(40) The range of the following data is 6



- (41) If the range of data set is 34 and the smallest value is 45, then the greatest number is 79
- (42) If 88 is the greatest number of data set and the range = 21, then the smallest number is  $\frac{67}{2}$

— Math primary 6

First-Term

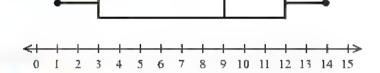
## 3 Answer the following questions

### (1) From the opposite box plot, complete:

- a) The minimum value = 1
- b) The maximum value = 14

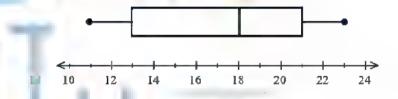


- d) The lower quartile = 3
- e) The upper quartile = 12



### (2) From the opposite box plot, complete:

- a) The minimum value = 11
- b) The maximum value  $\Rightarrow$  23
- c) The median = 18
- d) The lower quartile = 13
- e) The upper quartile = 21

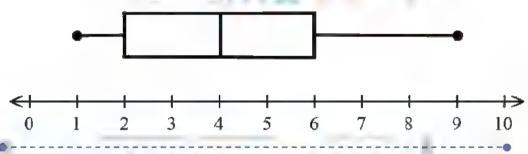


(3) For the set of values: 10, 9, 8, 7, 6, 4, 2:

- a) The minimum value = 2
- b) The maximum value = 10
- c) The median = 7
- d) The lower quartile = 4
- e) The upper quartile = 9

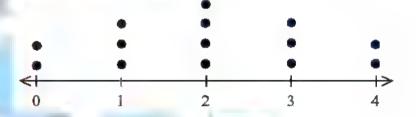
(4) Draw a box plot for the values (5, 1, 9, 4, 3, 6, 2)

- a) The minimum value = 1
- b) The maximum value = 9
- c) The median = 4
- d) The lower quartile = 2
- e) The upper quartile = 6



(5) By using the opposite dot plot find:

- a) The mean = 2
- b) The median = 2
- c) The mode = 2
- d) The range = 4



(6) For the set of values: 2, 5, 4, 1, 2, 26, 2:

Find

- a) The median = 2
- b) The mean = 6
- c) The mode = 2
- d) The range = 25
- e) The outlier =  $\frac{26}{}$

(7) If Ali saves 17.50 L.E.,15.75 L.E, 29.75 L.E. from her salary. Find the mean of Ali savings.

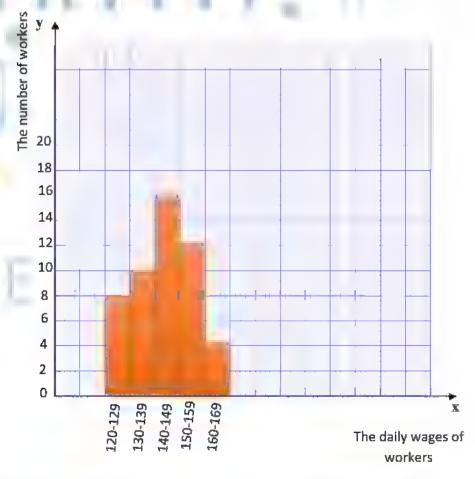
the mean = 
$$\frac{17.50+15.75+29.75}{3}$$
 = 21 L.E.

(8) Ahmed runs 4 km on Sunday, 3 km on Monday, 5 km on Tuesday and 4 km on Friday. Find the mean of distances covered by Ahmed.

the mean 
$$=\frac{4+3+5+4}{4} = 4 \text{ km}$$

(9) The following table shows the daily wages of 50 workers of company.

Sets	Frequency		
120-129	8		
130-139	10		
140-149	16		
150-159	12		
160-169	4		



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# Part 1

### Q1- Choose the correct answer:-

1) Which of t	the following ar	e relatively prime	numbers
		c) 2 and 12	
2) Which of	the following ar	e relatively prime	e numbers
a) 2 and 6	b) 15 and 30	c) 35 and 16	d) 12 and 18
3) Which of	the following is	not prime number	
a) 2 4) 20 + 25 =	b) 5	c) 7	d) 9
a) 2 ( 0 + 5 ) 5) ( 5 + 2		c) 5 (4+5)	d) 20 ( 0 + 5 )
	b) 3 of 5 and 15 is		d) 5
a) 15 7) $\frac{2}{7} + \frac{2}{7} + \frac{2}{7} + \frac{2}{7}$	b) 0	c) 30	d) 1
	b) $1\frac{1}{7}$		d) $\frac{10}{7}$
8) The equival	ent fraction $\frac{12}{15}$	is	
a) $\frac{2}{5}$	b) $\frac{3}{4}$	c) $\frac{4}{5}$	d) $\frac{1}{3}$
9) Murad has	120 crayons , c		mong 6 of his friends , how
many crayo	ns are left?		
_	•	c) 3 vely prime numbe	
a) 4	b) 12	c) 21	d) 24

11) The opp	posite of the num	nber -8 is	•••••
a) -8	b) 8	c) 0	d) -7
12) Which	of the following	is an integer?	
a) $\frac{15}{2}$	<b>b)</b> $\frac{15}{3}$	c) $\frac{15}{4}$	d) $\frac{15}{6}$
13) Which	of the following	nearest to zer	0 ?
a) -4	b) 4	c) -3	d) 2
14) -3			
a) <	b) >	c) =	
15) An inte	eger included be	tween -2 and 3	ED4 0EF D4E 4FF
a) -3	b) 3	c) -4	d) -1
16) The in	teger which com	es just next -1	is
a) -2	b) 0	c) 2	d) 1
17) The opp	posite of the opp	osite of 5 is	*****
a) -5	b) - (-5)	c) 0	d) 10
18) The sm	allest number fr	om the following	g is
a) -7	b) 2	c) 1	d) -17
19) The gre	eatest number fr	om the followin	g is
a) -2	b) -1	c) -10	d) -11
20) Which	of the following	is the nearest '	to zero ?
a) 4	b) -2	c) -3	d) 3
21) The gre	eatest negative i	nteger is	
a) -2	b) + (-1)	c) 0	d) -1
22) The gre	eatest non-positi	ve is	

a) 1 b) -1 c) 0

d) -(-1)

23) The distance between the opposite of 4 and zero on the number line equals ..... units

- a) 4
- b) -4
- c) 0

d) 8

24) All the following numbers are rational except .............

- a) 0
- b)  $\frac{3-3}{5}$  c)  $\frac{2}{5}$

25) -4 ..... set of counting numbers

- a) belong to b) does not c) is subset of d) is not
  - subset of

26) The best subset of the number -10 is ..........

belong to

- a) rational b) counting c) integers d) natural

27) The best subset of the number 1 is ......

- a) rational
- b) counting c) integers d) natural

28) Each number in the set of integers is called ......

- a) element
- b) set
- c) subset d) not subset

29) The best subset of the number 0 is ......

- a) rational b) counting c) integers d) natural

- c) =

a) < b) > 31)  $-\frac{1}{4}$  ......  $-\frac{2}{9}$ 

- a) <
- b) >
- c) =

32) Seif deposit 1,000 L.E. in a bank represents as ...........

- a) 1000 b) -1000 c) 100 d) -100

33) 0.7 ..... 0.65

- a) <
- b) >
- c) =

34) ..... is lying between 3.14 and 3.2

- a) 3.15
- b) 3.21 c) 3.20
- d) 3.22

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35) The number	of rational nun	nbers lying betwe	en $\frac{2}{5}$ and $-\frac{2}{5}$ is					
a) 2	b) 1	c) 0	d) infinite number					
36) The smallest number from the following is								
a) 0.11	b) 0.3	c) 0.101	d) 1					
37) The greates	st number from	the following is	_					
a) $\frac{1}{4}$ 38) 02	b) $\frac{1}{3}$	c) $\frac{1}{12}$	d) $\frac{1}{2}$					
a) <	h) >	c) =						
39) If  -99  =								
a) -99 40)  -11  >		c) 9	d) -9					
a) 10 41) The distance		c) 13 nd its opposite o	d) 101 n number line is units					
<ul><li>a) 0</li><li>42) The absolut</li></ul>	b) 4 e values of oppo	c) 8 osites are						
	b) negative number with an	_	reater than 10 is					
•	•	c)-9 opposite of -7 is	•					
a) 7 45) The set of		c) 14 s of negative num	d)-14 nbers and numbers					
a) natural	b) counting	c) rational	d) positive					
46) Which of the following is counting number								
a) 0	b) -1	c) 1	d) -2					

4

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47)  $-3\frac{1}{2}$  lies between two whole numbers .....

a) 0 and 1 b) -2 and -3 c) 3 and 4

d) -3 and -4

48) The number of integers lies between  $\frac{3}{5}$  and  $\frac{16}{5}$ 

a) 0

b) 3

c) 2

d) infinite

49) The number of integers lies between 3.1 and 3.2

a) 0

b) 3

c) 2

d) infinite

50) Which of the following is an algebraic expression ......

a)  $44-3\times4$  b) 3+7-0 c) 15a-32 d) 2(3-4)

51) The number of like terms in the expression 3 + 2x + 5 is ......

a) 1

b) 2

c) 3

d) 4

52) Which of the following are like terms? ......

a) 25,52 b) I, m c) ab, aq d) ab, ac

53) 2 + 3 (.....) complete to get numeric expression

**b)** x

c) 20 -15

d) a + x

54) Twice the difference of a number and 5 is .....

a) 2Y + 5

b) 2Y-5 c) 2(Y-5) d) 2(Y+5)

55) Yara saved n L.E. and her mother gave her 5 L.E. she will have ......

a) n-5

b) n + 5

c) 5 - n

d) 5n

56) Nada is X years old now how old will she be after 6 years?

a) x - 6

b) 6x c) 6 + x

d) 6-x

**57)** 5<sup>4</sup> = ......

a) 45

b) 4 x 5

c) 5 x 5x 5x 5 d)5x5x 5x5x5

58) The value of the expression 3n - 2 for n = 7 is ......

a) 14

b) 19

c) 21

d) 23

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59) The first operation you perform in the expression  $5(3^2-2)+7$  is ....... b) multiply c) subtract d) exponent 60) The value of the expression  $2X^2 - (3 \times 4 + 2^3) = \dots$  at X = 5b) 30 c) 40 d) 35 61)  $8 - 3 \times 2 \div (4 - 2)^2 = \dots$ c) 0.5 a) 2.5 b) 1 d) 6.5 62) Two cubed added to 5 squared equals = ..... a)2x3+5x5 b)  $3^2 + 2^5$  c)  $2^3 + 5^2$  d)  $2^3 + 5^4$ 63) The coefficient in the expression 6 - 3 + 5 X is ..... a) 6.3 b) 5 X c) 5 d) X 64) Number of like terms in the expression 4a + 4b + 5 is ..... a) 3 b) 2 c) 1 d) 0 65) Subtract 8 from the number k in algebraic form ...... b) k-8 c)8+ka) 8-k d) 8k 66) Marwan has 50 L.E. he bought 3 pens each for k L.E. then the remainder is ..... b) 3 + 50k c) 50 - 3k d) 50 + 3k a) 30 67) Take away twice the number k from 15 is written as ...... a) 2k-15 b) 15+2k c) 15-2k d) 15 – k<sup>2</sup> 68) 5 times a number less 7 is ..... b) 5b-7 c) 7-5b d)  $7-b^2$ a) 5b + 7 69) The value of the expression  $5 + (X^2 - 3) = \dots$  at X = 3d) 11 a) 6 b) 9 c) 12

70) 7 + 3 ( ...... + 5 ) - 4 complete to get numeric expression

a) b

b) k<sup>3</sup>

c) 10 - 6 d) x + y

71) If 25 ÷ b = 5 , then b = .....

- b) 5
- d) 1

72) If 3X = 12, then  $\frac{1}{2}X = ...$ 

- a) 9
- b) 6

d) 2

73) If y ÷ 2 = 8, then  $\frac{1}{4}$  y = ......

- a) 8
- b) 6
- c) 4

d) 2

74) A number if added to 17, the sum is 28 then the number is ......

- b) 18
- c) 45

75) A product of a number x and 6 is 42, then  $x = \dots$ 

- a) 6
- b) 7
- c) 48
- d) 36

76) Which of the following is a solution of inequality m ≥ -1?

- a) -2
- b) -3
- c) -4

d) 0

77) All of the following are solutions of inequality m < -3 except ......

- a) -2
- b) -10
- c) -5
- d) -6

78) The inequality that represent the graph is ......



- a) k < -1

- b) k > -1 c)  $k \le -1$  d)  $k \ge -1$

79) Number of solutions of inequality s > 10 is ......

- a) 2
- b) 1
- c) 0
- d) infinite

80) ...... Is a solution of  $\times$  < 4

- a) 3.96 b) 4
- c) 4.23
- d) 5

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81) All of the following are solutions of inequality m < -3 except ......

a) |-4|

b) -3 c) 4

d) 5

82) If 3x = 0, then  $\frac{1}{2}x = \dots$ 

a) 3

c)  $1\frac{1}{2}$ 

d) 0

83) Mohamed has 47 pounds, his friend has less than mohamed, then his friend has .....

a) 53

b) 47

c) 100

d) 19

84) A number is no more than 10 can be written as ......

a) x < 10

b) x > 10 c)  $x \le 10$  d)  $x \ge 10$ 

85) In the equation x = 4y + 3, the independent is .....

**b**) x

c) y

86) In the equation 9a + 24 = b , the dependent is ......

b) a

c) 24

87) 8 more than S equals T in equation is ......

a) 8S = T

b) 8 + S = T c) 8T = 8 d) 8 + T = S

88) M equals the product of n and 3 in equation is ......

a) m = 3n b) m = 3 + n c) n = 3 + m d) n = 3m

89) 4 times L added to 7 equals k , in equation is .....

a) 7L + 4 = k b) 7k + 4 = L c) 4L + 7 = K d) 4k + 7 = L

90) The word phrase for the equation q = 9h is .........

a) h equals g b) g equals 9 c) h equals 9 d) g equals h

increased by 9 times h

times g

increased by 9

91) In the equation  $y = 3 \times , if \times = 5.1$ , then y would be .....

a) 8.1

b) 53.1 c) 18.3 d) 15.3

92) The ordered pair which satisfies the equation y = x + 1 is ......

a)  $\{1,0\}$  b)  $\{1,2\}$  c)  $\{1,1\}$  d)  $\{2,1\}$ 

93) In the equation  $y=-2 \times ,y$  equals 8 where x= ......

- a) 2
- b) 4
- c) 6

d) 8

94) In the equation y = 3x+6.4, if x=1, then y would be .....

- a) 6.4
- b) 18.4
- c) 19.2
- d) 9.4

95) In the equation  $y = \frac{1}{2} x + 1$ , if x = 12, then y would be .....

- a) 6.5
- c) 7

96) If the equation y = x + 4 is represented by the following table, then a = ......

- a) 6
- b) 5
- c) 2
- d) 8

×	0	2	3
У	4	α	7

97) The equation which represents the following table is ......

- a) y = x + 2 b) y = 2x c) y = 2x + 1 d)  $y = \frac{x}{2} + 2$

×	1	2	3
У	3	5	7

## Q2- Complete the following :-

- 1) 3548 ÷ 23 = ..... R 6
- 2) 984 ÷ 5 = ..... R ......
- 3)  $264 \div 65 = \dots R \dots R$
- 4) 1515 ÷ 15 = .....
- 5) The divisor in the equation 16,692 ÷ 52 = 321 is ......
- 6) If the price of 15 boxes 3,645, then the price of each one is ......
- 7) A merchant paid 7,420 L.E. to buy 53 boxes of mango, then the price of each box is ......, and if each box contains 5 kg of mango then the price of each kg is .....

- 8) The LCM of 5 and 7 is .....
- 9) Factors of 18 are ......
- 10) A number whose prime factors are 2,3,5 is ......
- 11) The smallest prime number is .....
- 12) The prime number has ..... factors
- 13) The common factor of all numbers is ......
- 14) The greatest common factor of two prime numbers is ......
- 15) ..... is a multiple of any number
- 16) The GCF of 15 and 10 is ......
- 17) The LCM of 8 and 18 is ......
- 18) In the opposite venn diagram the GCF is .......
- 3 2 5
- 19) In the opposite venn diagram the LCM is .......
- 3 0 5
- 20) In the opposite venn diagram the GCF is .......
- 3 2 2
- 21) Yara saves 105 L.E. weekly, so she saves daily .......
- 23) From the opposite venn diagram the expression is .....
- 3 (2) 7
- 24) The greatest common factor of 6 and 8 is ...........
- 25) 6 (7 + 9) = 42 + .....
- 26) ..... (5 + 2) = 15 + 6
- 27) 30 + 50 = ..... ( ...... + ...... )
- 28) 5 ( 2 + ...... ) = 10 + 35
- 29) 9 (1 + 2 ) = 9 + .....
- 30)  $\frac{2}{5} + \frac{3}{10} = \dots$
- 31)  $\frac{3}{4} \frac{5}{8} = \dots$

- 32)  $3\frac{1}{4} + 7\frac{1}{3} = \dots$
- 33) The smallest non negative integer is ........
- 34) The opposite of zero is ......
- 35) The smallest natural number is ....... the smallest counting number is ......
- 36) The smallest positive integer is ......, the greatest negative integer is ......
- 37) The number ...... neither negative nor positive
- 38) The integer which just next (after) -4 is ...........
- 39) The integer which just before -10 is ......
- 40) The number of integers between -4 and 3 is ......
- 41) The opposite number line, the integer which represents a is .........



- 42) Set of counting numbers is ...... of set of rational numbers .
- 43) Set of natural numbers is ...... of set of counting numbers .
- 44) Set of rational numbers is ...... of set of integers .
- 45) Set of integers is ...... of set of rational numbers .
- 46) 0 ..... to set of rational numbers .
- 47)  $\frac{15}{3}$  ..... to set of counting numbers .
- 48) |-6| ..... to set of natural numbers.
- 49) The rational number -4.7 lies between two integers ...... and ...... and
- 50) 4 = ..... (write in fraction form  $\frac{a}{b}$ )
- 51)  $2\frac{1}{4} = \dots$  (write in fraction form  $\frac{a}{b}$ )
- 52) -1.5 = ..... ( write in fraction form  $\frac{a}{b}$  )
- 53) The opposite of  $\left|-\frac{1}{2}\right|$  is ......
- 54) |-2| × 0 = .....
- 55) If |x| = 4, the x = ..... or ......
- **56)** [-5] 5 = .....
- 57) 0 × |-3| = .....
- 58) |-2| + |-13| = .....

- 59) |-30| ÷ |-5| = .....
- 60) |-9| > .....
- 61) The constant in the expression 2X + 5 is ......
- 62) The number of terms in expression 5 2m -3m -4 is ..... terms
- 64)5 (4 + 6 ) is ..... expression
- 65)2m 3 is ..... expression
- 66) The verbal expression for 2m 7 is .....
- 67) The algebraic expression for a number less 7 is .....
- 68) Seif works X hours daily, then the algebraic expression for the number of worked hours monthly is .....
- 69) Write the algebraic expression for subtract 7 from the double of number X .....
- 70) Write the algebraic expression for 8 decreased by 3 times a number M
- 71) Write the algebraic expression for twice the sum of a number and 3
- 72)2<sup>3</sup> = .....
- 73) The value of expression  $X + 3^2$  if X = 1 is .....
- $74)(17 11) + 3 \times 2^4 \div 2^3 = \dots$
- 75) The value of expression 4 ( 3X + 1 ) = ...... at X = 1
- **76)**Five squared = .....
- 77) The two like algebraic terms in 5 4X + 23 are ......
- 78) If the price of a piece of tart is 18 L.E. then the algebraic expression represent the price of n pieces is .....
- $80)3 \times 3 \times 3 \times 3 \times 3 \times 3 \times 3 = 3$
- 81) Area of the square whose side length 7 cm in the exponential form is ......cm<sup>2</sup>
- 82) The volume of cube whose edge length 5 cm is ......

83)5 cubed = ........

84) If 
$$X + 2 = 9$$
, then  $X = .....$ 

85) If 
$$Y - 3 = 10$$
, then  $Y = .....$ 

87) If 
$$\frac{k}{8} = 7$$
, then  $K = .....$ 

89) If 
$$x + x + x = 18$$
, then  $x = .....$ 

91) If 
$$k + 1 = 5$$
, then  $k - 3 = ....$ 

92) If 
$$m - 3^2 = 1$$
, then  $m = ....$ 

93) The number of solutions of equation 
$$x + 3 = 5$$
 is  $/$  are ...... solution(s)



99) 
$$\frac{3}{4} \times = \frac{3}{4}$$
, then  $2X = ...$ 

104) S equals the product of eight and r added to 42 as an algebraic equation is ......

106) In the equation 
$$m = 11n + 2$$
, the independent is .....

107) In the equation 
$$y = 2 + x$$
, if  $x = 3$ , then y would be ......



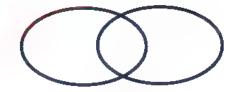
- 108) The verbal phrase for Y = 3x + 1 is ......
- 109) The verbal phrase for y + 2 = x is .........
- 110) In the rule :y =  $4 \times$ , if  $\times = 1.3 \text{ m}$ , then y = ..........
- 111) The ordered pair which satisfies the rule: y = x + 3 is (1, ....)

### Q3- Find the G.C.F using venn diagram :-

10 and 30

7 and 12





## Q4- Answer the following :-

1- Yara has 24 pens and 16 rules, she wants to put them in groups, what the greatest number of groups that can be made so that each group has the same number of items? how many pens will be in each group? how many ruler will be in each group? and write the numerical expression which represents the total number of items.

2- Use the venn diagram to find G.C.F & L.C.M of 15 and 10

3-Seif ate  $\frac{1}{4}$  of the cake and Maria ate  $\frac{1}{3}$  of the same cake , how much of the cake has been eaten ? and how much left ?

## Q5- Arrange in ascendeing order :-

3) 
$$-\frac{1}{2}$$
,  $-\frac{1}{3}$ ,  $-1$ ,  $\frac{1}{4}$ 

## Q6- Find two rational numbers lying between:-

43	2	5
1)	3	and $\frac{1}{6}$

3.75 and 3.76

## Q7- Complete the following tables then make the graph:-

1) The equation is Y = x + 2

×	0	1	2
У			
(x,y)			

The equation is Y = 2x2)

×	1	3	5
у			
(x,y)			





## Part 2

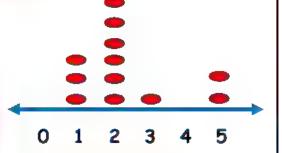
statistical

### Q1- Identify which question is statistical or non statistical :-

- 1) How tall are you?
- 2) How tall are the students in your class?
- 3) What do the students prefer to eat for lunch?

## Q2-From the opposite graph answer the following :-

- 1) how many students were surveyed?
- 2) how many students had 3 siblings?
- 3) how many students had more than 1 sibling?
- 4) how many students had 2 siblings or more?
- 5) how many students had less than 3 siblings



#### Q3-From the opposite graph answer the following :-

- 1) The total number of worker is ......
- 3) The number of workers whose daily Salary is 90 or more = .....
- 4) The number of workers whose daily Salary is less than 120 = ......
- 5) The intervals having the least frequency

  Are ......
- 6) How many workers whose daily salary at least 100?



#### Q4- The following data represents the ages of 30 workers in a company

marks	21	22	23	24	25	26	27	29	30
Number of students	3	5	2	6	1	4	1	3	5

- a) Complete the table
- b) Draw a histogram to represent data

Frequency Intervals

#### Q5- From the opposite Box plot complete :-

- 1) The minimum value = .....
- The maximum value = ..... 2)
- The median = ..... 3)
- 10 12 14 16 18 20 22 24 The lower quartile = ..... 4)
- 5) The upper quartile = .....



Q6- Find the 5-number summary for the following data and draw the box plot

4 , 5 , 7 , 10 , 12 , 13 , 14 , 16 , 18

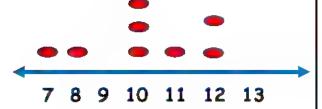
#### Q7- Choose the correct answer :-

- 1) Which display makes it easier to see the median?
  - a) histogram b) dot plot c) bar graph d) box plot
- 2) The mean of the data set 7,13,6 and 2 is ......7
  - a) 2
- b) 6 c) 7

- d) 13
- - a) 4
- b) 3
- c) 2
- d) 1
- 4) The balance of the data set 5, 7, 6, 8, 6 and 10 is ......
  - a) 7
- b) 5
- c) 8
- d) 10
- 5) The average of 11,12,14,14,14,15, 16 and 16 is ......
  - a) 11
- b) 14 ( c) 13
- d) 15
- 6) If the mean of the marks of 5 students is 20 marks , then the sum of their marks equals ..... marks 100
  - a) 4
- b) 15
- c) 25
- d) 100

	-		nd Wesam is 7 years and	the age of
	•	-	Vesam is6	
_	-	c) 6		
		_	triangle is 8 cm, then t	the
•		ngle is		
a) 8 cm	b) 18 cm	c) 24 cm	d) 15 cm	
9) A set of	values with t	wo modes are i	s called	
a) bimoda	l b) trimod	al c) multime	odal d) non-modal	
10) The mod	e of the follo	wing data set (	3,4 ,5 ,3 ,5 ,7 ,5 ,9 ,5	5 ,2 ) is
		c) 7		
			the smallest value.	
a) +	b) -	c)×	d) ÷	
12) If the vo	ulues of data	set start from	30 to 60, then the range	e of this
data =				
a) 30	b) 20	c) 60	d) 90	
Q8- Comp	lete the f	ollowing :-		
_			4 . (2)	
			1 and 3 is	
			is 10 then a =	
	•		ta 5,7,9,10,12,15,20 is	**********************
• •	·		and	
			form of intervals is	
		idual data is		
7) The shap	pe shows the	median is	##PP######	
8) The shap	pe shows numb	per of individua	l data is	
9) The shap	pe shows lowe	r quartile is	***************************************	
10) The shap	pe shows the	five-number su	mmary is	

11) The mean of the following data is ......

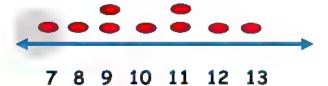


- 12) The balance of the data set 15, 16, 18, 18, 19, 20, 20 is ...........
- 13) If the mean of 8,6, x,5 is 5 then x = .....
- 14) The average of the values 10, 10, 10, 10 is ......
- 15) The median of values 5 , 3 , 8 , 4 , 7 , 1 and 10 is ......
- 16) The sum of seven numbers is 49, then the mean of these numbers is .....
- 17) If the sum of five numbers is 30, then the mean of these numbers is .....
- 18) ...... are values that lie away the other values
- 19) The outlier value of the data set (7,46,48,49,50,51,52) is ......
- 21) ..... is the measure of central tendency changed more with the outlier.
- 22) The better measure of central tendency for data set with outlier value is
- 23) ...... is the better measure of central tendency for data set with no outlier value .
- 24) The ..... is the value that occurs most often.
- 25) The mode of (7,10,15,7,10,13,7,15,7) is ......
- 26) The range of the set of values 6, 5, 9, 4, 11, 3 and 7 is ......
- 27) If 50 is the greatest number of data set and the range = 10 'then the smallest number of this data set equals ......
- 28) The range = .....

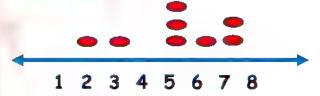
29) The difference between the greatest value and the smallest value in data set is .....

30) ..... is the middle value of the data set

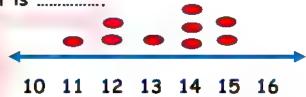
31) The median of the following data which is represented by dot plot is



32) The mean of the following data equals .....



33) The mode of the opposite data set is ......



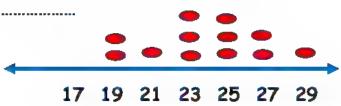
34) From the following dot plot, the best measure of central tendency ........... and its value = .....



35) In the opposite box plot , the range = .....



36) In the opposite data, the range = .....



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# Part 1

1) Which of the following are relatively prime numbers .....

## Q1- Choose the correct answer:-

a) 4 and 8	b) 12 and 18	c) 2 and 12	<u>d) 9 and 4</u>
2) Which of	the following a	re relatively prim	e numbers
a) 2 and 6	b) 15 and 30	c) 35 and 16	d) 12 and 18
3) Which of	the following is	not prime numbe	r
	b) 5	c) 7	<u>d) 9</u>
4) 20 + 25 =			
a) 2 ( 0 + 5 )	b) 5 (5+5)	c) 5 (4+5)	d) 20 ( 0 + 5 )
	2)=15+6		
a) 2	<u>b) 3</u>	c) 4	d) 5
	A of 5 and 15 is		
a) 15	b) 0	c) 30	d) 1
7) $\frac{2}{7} + \frac{2}{7} + \frac{2}{7} + $	$\frac{2}{7} = \dots$		
	b) $1\frac{1}{7}$	* *	d) $\frac{10}{7}$
8) The equiva	lent fraction $\frac{12}{15}$	is	
_	b) $\frac{3}{4}$	_	d) $\frac{1}{3}$
9) Murad has	120 crayons ,	distribute them o	among 6 of his friends, how
many crayo	ons are left?		
a) 1	b) 0	c) 3	d) 6
10) 8 and	. Are two relat	ively prime numbe	ers
a) 4	b) 12	c) 21	d) 24

- a) -8
- b) 8
- c) 0

d) -7

- b)  $\frac{15}{3}$
- d)  $\frac{15}{6}$

#### 13) Which of the following nearest to zero?

- a) -4
- b) 4
- c) -3
- d) 2

- a) <
- b) >
- c) =

#### 15) An integer included between -2 and 3 ......

- b) 3
- c) -4
- d) -1

- a) -2
- b) 0
- c) 2
- d) 1

- a) -5
- b) -(-5)
- c) 0

d) 10

- a) -7
- b) 2
- c) 1

d) -17

- b) -1
- c) -10
- d) -11

#### 20) Which of the following is the nearest to zero?

- a) 4
- b) -2
- c) -3
- d) 3

- a) -2
- b) -(-1)
- c) 0

d) -1

- a) 1
- b) -1
- c) 0

d) -(-1)

23) The distance between the opposite of 4 and zero on the number line equals ..... units

- a) 4
- b) -4
- c) 0

d) 8

24) All the following numbers are rational except .............

- a) 0

- b)  $\frac{3-3}{5}$  c)  $\frac{2}{5}$

25) -4 ..... set of counting numbers

- a) belong to b) does not c) is subset of d) is not
  - subset of

26) The best subset of the number -10 is ..........

belong to

- a) rational b) counting c) integers d) natural

27) The best subset of the number 1 is ......

- a) rational
- b) counting c) integers d) natural

28) Each number in the set of integers is called ......

- a) element
- b) set
- c) subset d) not subset

29) The best subset of the number 0 is ......

- a) rational b) counting c) integers d) natural

- c) =

a) < b) > 31)  $-\frac{1}{4}$  ......  $-\frac{2}{9}$ 

- a) <
- b) >
- c) =

32) Seif deposit 1,000 L.E. in a bank represents as ...........

- a) 1000 b) -1000 c) 100 d) -100

33) 0.7 ..... 0.65

- a) <
- b) >
- c) =

34) ..... is lying between 3.14 and 3.2

- a) 3.15
- b) 3.21 c) 3.20
- d) 3.22

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35) The number	r of rational num	nbers lying betwe	$en \frac{2}{\pi}$ and $-\frac{2}{\pi}$ is						
	b) 1		d) infinite number						
36) The smalles	st number from	the following is							
a) 0.11	b) 0.3	<u>c) 0.101</u>	d) 1/2						
37) The greatest number from the following is									
a) $\frac{1}{4}$ 38) 02	b) $\frac{1}{3}$	c) $\frac{1}{12}$	<b>d)</b> $\frac{1}{2}$						
a) < 39) If  -99  =	<u>b) &gt;</u> x , then x =								
a) -99 40)  -11  >		c) 9	d) -9						
	b) 11 ce between -4 a		d) 101 n number line is, units						
a) 0 42) The absolut	_	<u>c) 8</u> osites are							
	b) negative number with an		reater than 10 is						
a) 10 44) The absolut	b) 11 te value of the c	c)-9 opposite of -7 is	<u>d) -12</u>						
<u>a) 7</u> 45) The set of		c) 14 s of negative nur	d)-14 nbers and numbers						
a) natural	b) counting	c) rational	d) positive						
46) Which of the	he following is c	ounting number							
a) 0	b) -1	<u>c) 1</u>	d) -2						
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47)  $-3\frac{1}{2}$  lies between two whole numbers .....

a) 0 and 1 b) -2 and -3 c) 3 and 4

d) -3 and -4

48) The number of integers lies between  $\frac{3}{5}$  and  $\frac{16}{5}$ 

a) 0

b) 3

c) 2

d) infinite

49) The number of integers lies between 3.1 and 3.2

a) 0

b) 3

c) 2

d) infinite

50) Which of the following is an algebraic expression ......

a)  $44 - 3 \times 4$  b) 3 + 7 - 0 c) 15a - 32 d) 2(3 - 4)

51) The number of like terms in the expression 3 + 2x + 5 is ......

a) 1

b) 2

c) 3

d) 4

52) Which of the following are like terms? ......

a) 25, 52 b) I, m c) ab, aq d) ab, ac

53) 2 + 3 (.....) complete to get numeric expression

**b)** x

c) 20 -15

d) a + x

54) Twice the difference of a number and 5 is .....

a) 2Y + 5

b) 2Y-5 c) 2(Y-5) d) 2(Y+5)

55) Yara saved n L.E. and her mother gave her 5 L.E. she will have ......

a) n-5

b) n + 5

c) 5 - n

d) 5n

56) Nada is X years old now how old will she be after 6 years?

a) x - 6

b) 6x | c) 6 + x

d) 6-x

**57) 5**<sup>4</sup> = .....

a) 4<sup>5</sup>

b) 4 x 5

c) 5 x 5x 5x 5 d)5x5x 5x5x5

58) The value of the expression 3n - 2 for n = 7 is .....

a) 14

b) 19

c) 21

d) 23

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59) The first operation you perform in the expression  $5(3^2-2)+7$  is ....... b) multiply c) subtract d) exponent 60) The value of the expression  $2X^2 - (3 \times 4 + 2^3) = \dots$  at X = 5b) 30 c) 40 d) 35 61)  $8 - 3 \times 2 \div (4 - 2)^2 = \dots$ c) 0.5 b) 1 a) 2.5 d) 6.5 62) Two cubed added to 5 squared equals = ..... a)2x3+5x5 b)  $3^2 + 2^5$  c)  $2^3 + 5^2$  d)  $2^3 + 5^4$ 63) The coefficient in the expression 6 - 3 + 5 X is ..... a) 6.3 b) 5 X c) 5 d) X 64) Number of like terms in the expression 4a + 4b + 5 is ..... a) 3 b) 2 c) 1 d) 0 65) Subtract 8 from the number k in algebraic form ...... b) k-8 c) 8 + k a) 8-k d) 8k 66) Marwan has 50 L.E. he bought 3 pens each for k L.E. then the remainder is ..... b) 3 + 50k c) 50 - 3k d) 50 + 3k a) 30 67) Take away twice the number k from 15 is written as ...... b) 15 + 2k c) 15 - 2k d)  $15 - k^2$ 68) 5 times a number less 7 is ..... b) 5b-7 c) 7-5b d)  $7-b^2$ b) 5b + 769) The value of the expression  $5 + (X^2 - 3) = \dots$  at X = 3b) 9 a) 6 c) 12 d) 11 70) 7 + 3 ( ....... + 5 ) - 4 complete to get numeric expression

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b) k<sup>3</sup>

a) b

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c) 10 - 6 d) x + y

71) If 25 ÷ b = 5 , then b = .....

- b) 5
- d) 1

72) If 3X = 12, then  $\frac{1}{2}X = ...$ 

- a) 9
- b) 6

d) 2

73) If y ÷ 2 = 8, then  $\frac{1}{4}$  y = ......

- a) 8
- b) 6
- c) 4

d) 2

74) A number if added to 17, the sum is 28 then the number is ......

- b) 18
- c) 45

75) A product of a number x and 6 is 42, then  $x = \dots$ 

- a) 6
- b) 7
- c) 48
- d) 36

76) Which of the following is a solution of inequality m ≥ -1?

- a) -2
- b) -3
- c) -4

d) 0

77) All of the following are solutions of inequality m < -3 except ......

- a) -2
- b) -10
- c) -5

d) -6

78) The inequality that represent the graph is ......



- a) k < -1 b) k > -1 c)  $k \le -1$

- d)  $k \ge -1$

79) Number of solutions of inequality s > 10 is ......

- a) 2
- b) 1
- c) 0

d) infinite

80) ...... Is a solution of x < 4

- a) 3.96
- b) 4
- c) 4.23
- d) 5

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81) All of the following are solutions of inequality m < -3 except ......

b) -3 c) 4

d) 5

82) If 3x = 0, then  $\frac{1}{2}x = \dots$ 

a) 3

c)  $1\frac{1}{2}$ 

<u>d) 0</u>

83) Mohamed has 47 pounds, his friend has less than mohamed, then his friend has .....

a) 53

b) 47

c) 100

d) 19

84) A number is no more than 10 can be written as .....

a) x < 10 b) x > 10 c)  $x \le 10$ 

d) x ≥ 10

85) In the equation x = 4y + 3, the independent is .....

b) x

c) y

d) 3

86) In the equation 9a + 24 = b , the dependent is ......

b) a

c) 24

87) 8 more than S equals T in equation is ......

a) 8S = T

b) 8 + S = T c) 8T = 8 d) 8 + T = S

88) M equals the product of n and 3 in equation is .....

a) m = 3n b) m = 3 + n c) n = 3 + m d) n = 3m

89) 4 times L added to 7 equals k , in equation is .....

a) 7L + 4 = k b) 7k + 4 = L c) 4L + 7 = K d) 4k + 7 = L

90) The word phrase for the equation g = 9h is ........

a) h equals g b) g equals 9 c) h equals 9 d) g equals h

increased by 9

times h

times g

increased by 9

91) In the equation  $y = 3 \times if \times = 5.1$ , then y would be .....

a) 8.1

b) 53.1 c) 18.3

d) 15.3

92) The ordered pair which satisfies the equation y = x + 1 is ......

a) (1,0) b) (1,2) c) (1,1) d) (2,1)

93) In the equation y=-2x, y equals 8 where  $x = \dots$ 

- a) -2
- b) 4
- c) 6

d) -4

94) In the equation y = 3x+6.4, if x=1, then y would be ......

- a) 6.4
- b) 18.4
- c) 19.2
- d) 9.4

95) In the equation  $y = \frac{1}{2}x + 1$ , if x = 12, then y would be .....

- a) 6.5
- b) 13 <u>c) 7</u>

96) If the equation y = x + 4 is represented by the following table, then a = ......

- a) 6
- b) 5
- c) 2

d) 8

×	0	2	3
У	4	α	7

97) The equation which represents the following table is ......

- a) y = x + 2 b) y = 2x c) y = 2x + 1 d)  $y = \frac{x}{2} + 2$

×	1	2	3
У	3	5	7

## Q2- Complete the following :-

- $3548 \div 23 = (154) R 6$ 1)
- 2)  $984 \div 5 = (196) R (4)$
- 3)  $264 \div 65 = (4) R (4)$
- 4)  $1515 \div 15 = (101)$
- 5) The divisor in the equation  $16,692 \div 52 = 321$  is (52)
- If the price of 15 boxes 3,645, then the price of each one is 6)  $(3,645 \div 15 = 243)$

- 7) A merchant paid 7,420 L.E. to buy 53 boxes of mango, then the price of each box is (140), and if each box contains 5 kg of mango then the price of each kg is (28)
- 8) The LCM of 5 and 7 is (35)
- 9) Factors of 18 are (1,2,3,6,9 and 18)
- 10) A number whose prime factors are 2,3,5 is (30)
- 11) The smallest prime number is (2)
- 12) The prime number has (2) factors
- 13) The common factor of all numbers is (1)
- 14) The greatest common factor of two prime numbers is (1)
- 15) (0) is a multiple of any number
- 16) The GCF of 15 and 10 is (5)
- 17) The LCM of 8 and 18 is (72)
- 18) In the opposite venn diagram the GCF is (2)



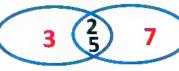
19) In the opposite venn diagram the LCM is (15)



20) In the opposite venn diagram the GCF is (1)



- 21) Yara saves 105 L.E. weekly, so she saves daily (105 ÷ 7= 15 L.E)
- 22)  $3(2+5) = 3 \times 2 + 3 \times 5$
- 23) From the opposite venn diagram the expression is 10(3+7)



- 24) The greatest common factor of 6 and 8 is (2)
- 25) 6 (7 + 9) = 42 + 54
- 26) 3(5+2)=15+6
- $27) \quad 30 + 50 = 10 (3 + 5)$
- 28) 5(2+7)=10+35
- 29) 9 (1 + 2) = 9 + 18

- $30) \quad \frac{2}{5} + \frac{3}{10} = \frac{7}{10}$
- 31)  $\frac{3}{4} \frac{5}{8} = \frac{1}{8}$
- 32)  $3\frac{1}{4} + 7\frac{1}{3} = 10\frac{7}{12}$
- 33) The smallest non negative integer is (0)
- 34) The opposite of zero is (0)
- 35) The smallest natural number is (0), the smallest counting number is (1)
- 36) The smallest positive integer is (1), the greatest negative integer is -1
- 37) The number (0) neither negative nor positive
- 38) The integer which just next (after) -4 is (-3)
- 39) The integer which just before -10 is (-11)
- 40) The number of integers between -4 and 3 is (6)
- 41) The opposite number line,
  the integer which represents a is (-3) a -1 0 1 2 3 4
- 42) Set of counting numbers is (subset) of set of rational numbers.
- 43) Set of natural numbers is (not subset) of set of counting numbers .
- 44) Set of rational numbers is (not subset) of set of integers .
- 45) Set of integers is (subset) of set of rational numbers .
- 46) 0 (belongs) to set of rational numbers.
- 47)  $\frac{15}{3}$  (belongs) to set of counting numbers .
- 48) |-6| (belongs) to set of natural numbers .
- 49) The rational number -4.7 lies between two integers (-4) and (-5)
- 50)  $4 = \frac{4}{1}$  (write in fraction form  $\frac{a}{b}$ )
- 51)  $2\frac{1}{4} = \frac{9}{4}$  ( write in fraction form  $\frac{a}{b}$  )
- 52) -1.5 =  $-\frac{15}{10}$  ( write in fraction form  $\frac{a}{b}$  )
- 53) The opposite of  $\left|-\frac{1}{2}\right|$  is  $\frac{1}{2}$
- 54)  $|-2| \times 0 = (0)$
- 55) If |x| = 4, the x = (-4) or (4)

- 56) |-5| 5 = (0)
- 57)  $0 \times |-3| = (0)$
- 58) |-2| + |-13| = (15)
- 59)  $|-30| \div |-5| = (6)$
- |-9| > (8)
- 61) The constant in the expression 2X + 5 is (5)
- 62) The number of terms in expression 5-2m-3m-4 is (4) terms
- 63) The coefficient in the algebraic expression 4X + 3 is (4)
- 64) 5 (4 + 6 ) is (numeric) expression
- 65) 2m 3 is (algebraic) expression
- 66) The verbal expression for 2m 7 is (the product of two and m decreased by 7)
- 67) The algebraic expression for a number less 7 is (x 7)
- 68) Seif works X hours daily, then the algebraic expression for the number of worked hours monthly is (30X)
- 69) Write the algebraic expression for subtract 7 from the double of number X (2x 7)
- 70) Write the algebraic expression for 8 decreased by 3 times a number M (8 3m)
- 71) Write the algebraic expression for twice the sum of a number and 3 2(x+3)
- 72)  $2^3 = (8)$
- 73) The value of expression  $X + 3^2$  if X = 1 is (10)
- 74)  $(17 11) + 3 \times 2^4 \div 2^3 = (12)$
- 75) The value of expression 4 (3X + 1) = (16) at X = 1
- **76)** Five squared = (25)
- 77) The two like algebraic terms in  $5 4X + 2^3$  are (5 and  $2^3$
- 78) If the price of a piece of tart is 18 L.E. then the algebraic expression represent the price of n pieces is (18n)
- 79) If the base is 7, the exponent is 5 then the exponential form is  $7^5$

- 80)  $3 \times 3 \times 3 \times 3 \times 3 \times 3 \times 3 = 3^7$
- 81) Area of the square whose side length 7 cm in the exponential form is  $7^2$  cm<sup>2</sup>
- 82) The volume of cube whose edge length 5 cm is (  $5^3=125$  )
- 83) 5 cubed =  $5^3$
- 84) If X + 2 = 9, then X = (7)
- 85) If Y 3 = 10, then Y = (13)
- 86) If 9 Z = 63 then Z = (7)
- 87) If  $\frac{k}{8} = 7$ , then K = (56)
- 88) Yara bought 3 pens for X L.E. each , she paid 15 L.E. , then X =(3x=15) x=5
- 89) If x + x + x = 18, then x = (6)
- 90) If  $\frac{x}{3} = 4$ , then twice X = (24)
- 91) If k + 1 = 5, then k 3 = (1)
- 92) If  $m 3^2 = 1$ , then m = (10)
- 93) The number of solutions of equation x + 3 = 5 is / are (one) solution(s)
- 94) The algebraic expression of subtract 3 from k is (k 3)
- 95) 4k = 20 , then k = (5)
- 96) Seif saved X L.E. and his father gave him 6 L.E., he will has (x+6)
- 97) The inequality that represents the following graph is  $(X \le 3)$



- 98) (-4) is a solution of inequality X < -3
- 99)  $\frac{3}{4}x = \frac{3}{4}$ , then 2X = (2)
- 100) A number if add to 7, the sum is 13, then the number is (6)
- 101) 7 more than x equals y as an algebraic equation is (7 + x = y)
- 102) Five times c equals d as an algebraic equation is (5c=d)
- 103) m equals twice n increased by 25 as an algebraic equation is (m=2n+25)

- 104) S equals the product of eight and r added to 42 as an algebraic equation is (s=8r+42)
- 105) In the equation . t = 20p, the dependent is (t)
- 106) In the equation m = 11n + 2, the independent is (n)
- 107) In the equation y = 2 + x, if x = 3, then y would be (5)
- 108) The verbal phrase for Y = 3x + 1 is (y equals the product of three and x increased by one)
- 109) The verbal phrase for y + 2 = x is (y more than two equals x)
- 110) In the rule :  $y = 4 \times$ , if x = 1.3 m, then y = (5.2)
- 111) The ordered pair which satisfies the rule: y = x + 3 is (1, 4)

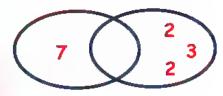
#### Q3- Find the G.C.F using venn diagram :-

10 and 30

7 and 12



$$G.C.F = 1$$



#### Q4- Answer the following :-

4- Yara has 24 pens and 16 rulers, she wants to put them in groups, what the greatest number of groups that can be made so that each group has the same number of items? how many pens will be in each group? how many ruler will be in each group? and write the numerical expression which represents the total number of items.

 $24=2\times2\times2\times3$  16=2×2×2×2 The greatest number of groups = 8

.The number of pens in each group = 3.

The number of rulers in each group =2

The numerical expression= 8(3+2)

5- Use the venn diagram to find G.C.F & L.C.M of 15 and 10



6- Seif ate  $\frac{1}{4}$  of the cake and Maria ate  $\frac{1}{3}$  of the same cake , how much of the cake has been eaten ? and how much left ?  $(\frac{1}{4} + \frac{1}{3}) = (\frac{3}{12} + \frac{4}{12} = \frac{7}{12}) = (\frac{12}{12} - \frac{7}{12} = \frac{3}{12})$ 

#### Q5- Arrange in ascendeing order :-

6) 
$$-\frac{1}{2}$$
,  $-\frac{1}{3}$ ,  $-1$ ,  $\frac{1}{4}$ 
 $-1$ ,  $-\frac{1}{2}$ ,  $-\frac{1}{3}$ ,  $\frac{1}{4}$ 

#### Q6- Find two rational numbers lying between:-



4) 3.75 and 3.76

3.750 and 3.760

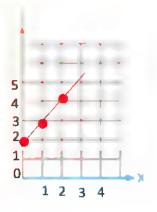
The two rational numbers are

3.751 and 3.752

### Q7- Complete the following tables then make the graph:-

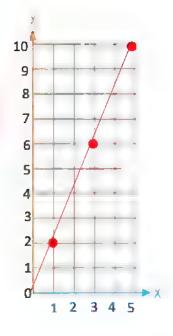
# 3) The equation is Y = x + 2

×	0	1	2	
у	2	3	4	
(x,y)	(0,2)	(1,3)	(2,4)	



#### The equation is Y = 2x4)

×	1	3	5
У	2	6	10
(x,y)	(1,2)	(3,6)	(5,10)



44

# Part 2

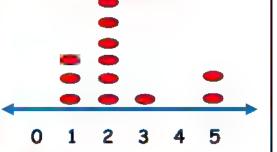
statistical

#### Q1- Identify which question is statistical or non statistical :-

- 1) How tall are you? (Non-statistical)
- 2) How tall are the students in your class? (statistical)
- 3) What do the students prefer to eat for lunch? (statistical)

#### Q2-From the opposite graph answer the following :-

- 1) how many students were surveyed? 12
- 2) how many students had 3 siblings ? 1
- 3) how many students had more than 1 sibling? 9
- 4) how many students had 2 siblings or more? 9
- 5) how many students had less than 3 siblings? 9



#### Q3-From the opposite graph answer the following :-

- 1) The total number of worker is 90
- 2) The daily salary interval has maximum Number of workers is (70-79)
- 3) The number of workers whose daily Salary is 90 or more = 45
- 4) The number of workers whose daily Salary is less than 120 = 85
- 5) The intervals having the least frequency

  Are (120-129)



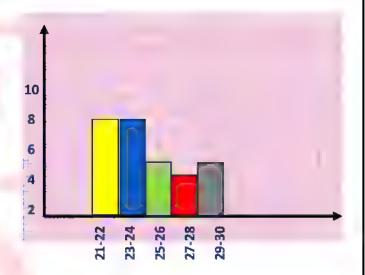
6) How many workers whose daily salary at least 100 ?

#### Q4- The following data represents the ages of 30 workers in a company

marks	21	22	23	24	25	26	27	29	30
Number of students	3	5	2	6	1	4	1	3	5

- a) Complete the table
- b) Draw a histogram to represent data

Intervals	Frequency
21-22	8
23-24	8
25-26	5
27-28	4
29-30	5



#### Q5- From the opposite Box plot complete :-

- 1) The minimum value = 11
- 2) The maximum value = 23
- 3) The median = 18
- 4) The lower quartile = 13
- 5) The upper quartile = 21



10 12 14 16 18 20 22 24

Q6- Find the 5-number summary for the following data and draw the box plot

The minimum = 4

the maximum = 18 the median = 12

The lower quartile Q1 = 6

the upper guartile Q3 = 15

#### Q7- Choose the correct answer :-

- 1) Which display makes it easier to see the median?
  - a) histogram b) dot plot c) bar graph d) box plot
- 2) The mean of the data set 7,13,6 and 2 is ......7
  - a) 2
- b) 6
- c) 7

- d) 13
- - a) 4
- b) 3
- c) 2

- d) 1
- 4) The balance of the data set 5 , 7 , 6 , 8 , 6 and 10 is ......
- a) 7
- b) 5
- c) 8

- d) 10
- 5) The average of 11,12,14,14,14,15, 16 and 16 is ......
  - a) 11
- b) 14 c) 13

- d) 15
- 6) If the mean of the marks of 5 students is 20 marks, then the sum of their marks equals ..... marks 100
  - a) 4
- b) 15
- c) 25
- d) 100

7) If the mean of the ages of Hanan and Wesam is 7 years and the age of Hanan is 8 years, then the age of Wesam is ......6 d) 8 b) 15 a) 7 c) 6 If the mean of the side lengths of a triangle is 8 cm, then the perimeter of the triangle is ..... a) 8 cm b) 18 cm d) 15 cm c) 24 cm 9) A set of values with two modes is called ..... b) trimodal c) multimodal d) non-modal a) bimodal

10) The mode of the following data set ( 3,4 ,5 ,3 ,5 ,7 ,5 ,9 ,5 ,2 ) is ......

a) 3 <u>b) 5</u> c) 7 d) 9

11) The range = the greatest value ..... the smallest value.

a) + b) - c)  $\times$  d) ÷

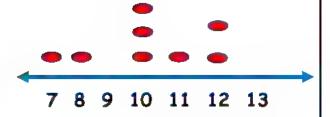
12) If the values of data set start from 30 to 60, then the range of this data = ......

<u>a) 30</u> b) 20 c) 60 d) 90

#### Q8- Complete the following :-

- 1) The median of the values 4, 7, 8, 1 and 3 is (8)
- 2) The median of a + 1, a + 2, a + 3 is 10 then a = (8)
- 3) The lower quartile for the set of data 5,7,9,10,12,15,20 is (7)
- 4) Types of statistical questions are (numerical) and (categorical)
- 5) The shape shows the set of data in form of intervals is (histogram)
- 6) The shape shows individual data is (dot plot)
- 7) The shape shows the median is (dot plot & box plot)
- 8) The shape shows number of individual data is (dot plot & histogram)
- 9) The shape shows lower quartile is (box plot)
- 10) The shape shows the five-number summary is (box plot)

11) The mean of the following data is (10)

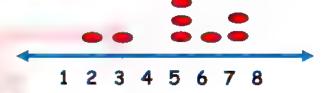


- 12) The balance of the data set 15, 16, 18, 18, 19, 20, 20 is (18)
- 13) If the mean of 8,6, x,5 is 5 then x = (1)
- 14) The average of the values 10, 10, 10, 10 is (10)
- 15) The median of values 5, 3, 8, 4, 7, 1 and 10 is (6)
- 16) The sum of seven numbers is 49, then the mean of these numbers is (7)
- 17) If the sum of five numbers is 30, then the mean of these numbers is (6)
- 18) outlier are values that lie away the other values
- 19) The outlier value of the data set (7,46,48,49,50,51,52) is (7)
- 20) The two outlier values of this data set ( 31 ,205 ,207 ,200 ,201 ,206,202,209 ,1,0001 ) are (31) and (1,0001)
- 21) (mean) is the measure of central tendency changes more with the outlier.
- 22) The better measure of central tendency for data set with outlier value is (median)
- 23) (mean) is the better measure of central tendency for data set with no outlier value.
- 24) The (mode) is the value that occurs most often.
- 25) The mode of (7,10,15,7,10,13,7,15,7) is (7)
- 26) The range of the set of values 6, 5, 9, 4, 11, 3 and 7 is (8)
- 27) If 50 is the greatest number of data set and the range = 10 'then the smallest number of this data set equals (40)
- 28) The range = (maximum value minimum value)
- 29) The difference between the greatest value and the smallest value in data set is called (range)

- 30) (median) is the middle value of the data set
- 31) The median of the following data which is represented by dot plot is ...(10)

7 8 9 10 11 12 13

32) The mean of the following data equals (5)



33) The mode of the opposite data set is (14)



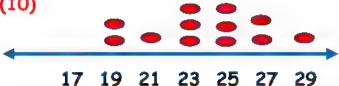
34) From the following dot plot, the best measure of central tendency (median) and its value = (13)



35) In the opposite box plot, the range = (7)



36) In the opposite data, the range = (10)



المراجمة رقورال)









### Q1: Choose the correct answer:

	Murad has 120 cray many crayons are le	yons distribute then eft?	n among 6 of his frie	ends, how
	<b>a</b> 0	<b>b</b> 1	<b>c</b> 2	<b>d</b> 3
2	The common multi	ple of all factors is .	60006 0000	
	<b>a</b> 0	<b>b</b> 1	© 2	<b>d</b> 3
3	The value of the ex	pression 2 + 16 – 3	b when b = 4 is	
_	<b>a</b> 4	<b>b</b> 2	<b>c</b> 6	<b>d</b> 10
4	Laila saved n L.E. a	nd her moth <mark>er gav</mark> e	her 5 L.E., she will	have L.E
	a n – 5	<b>b</b> n + 5	© 5 n	d 5-n
5	be made from pota	ession represents that atoes and carrot res	<mark>pecti</mark> vely: (6 × 6) + (	_
	then the total num	ber of carrots in all	bags is	
	<b>a</b> 6	<b>b</b> 36	C 18	<b>d</b> 9
6	The greatest comm	on factor of 6 and 8	3 is	
	<b>a</b> 4	(b) 1 /	© 2	<b>d</b> 3
7	The smallest non-n	egative integer is		
	<b>a</b> -1	(b) 1	© 0	d -10
8	An integer included	d between -4 and 2	is	
	<u>a</u> -1	(b) 2	<b>c</b> 3	<b>d</b> -5
9	The number of inte	egers on the numbe	r lin <mark>e i</mark> s	
	@ 1	(b) 2 AT/C5	(c) 100	<b>d</b> infinite
10	The first operation	or exponent you pe	erform in 3 x 5 + 3 (2	$(3-5)-4 \div 2$
	parantheses *	<b>b</b> plus	© multiply	d exponent
11	The best graph to r	epresent the numb	er of students abser	nt on a sunday
	a bag graph	<b>b</b> dot plots	c histogram	<b>d</b> otherwise
12	The lower quartile	for the set of data:	72, 64, 79, 63, 60, 7	5, <mark>70, 61,</mark> 77 is
	<b>a</b> 61	<b>b</b> 70	<b>©</b> 62	<b>d</b> 76











13	The absolute value	e of 6.3 is		
	<b>a</b> 6.3	<b>b</b> -3.6	C -6.3	<b>d</b> 3.6
14	Youssef can read n	nore than 7 books n	nonthly. Which in	equality represent
	the number of boo	ks that Youssef rea	d monthly ?	
	a x > 7	<b>b</b> x < 7	© x ≤ 7	<b>d</b> x ≥ 7
15	All of the following	g are solutions of in	equality x > – 2 ex	cept
2	Q-1	<b>b</b> -3	© 0	<b>d</b> 1
16	In the equation : y	= 3 x + 1, the order	ed pair (2, a) satis	fies the equation,
	then a =			
	<b>a</b> 5	<b>b</b> 6	© 7	<b>d</b> 8
17	are n	umerical data		
	a blood type	<b>b</b> birthplace	c age	d preferred colors
18	What is your favor	ite school subject?	<mark>is a</mark> ques	stion.
	Statistical		b Non-statistic	al
19	The mean of the v	alues ( 4, 9, 7, 1, 1, :	2) is	
	<b>a</b> 4	b 2 /	© 3	d 24
20	The number of inte	eger numbers lying	between 3 an	d <u>16</u> is
_				
44	(a) 0	b 2	(C) 3	(d) infinite
21	The equation which	h represents the ta	ble x	1 2 3
		MAKER	У	3 5 7
	(a) y = x + 2	(b) Y = 2 x	cy=2x+1	$\mathbf{d} \mathbf{y} = 2 \mathbf{x} - 1$
22	The smallest count	t <mark>ing</mark> number is	70000	9
	<b>a</b> 0	<b>b</b> Î	© 3	<b>d</b> -1
23	Eslam is x years of	d now , how old wil	ll he be after 6 yea	rs?
	a x ÷ 6	<b>b</b> 6x	C x + 6	<b>d</b> x - 6
24	Murad and farida	have 70 pounds, if	what Murad has is	k pounds, then
	what farida has is	pounds.		
	a 70 + k	<b>b</b> 70 - k	© 70 k	d 70 ÷ k
الكود	جعات ,امتحانات و شرج من خندل مسج	يمكنك الحصول علي مراد		





25	The constant in th	e expression 3y + 5	is	
	<b>a</b> 3	<b>b</b> 5	<b>©</b> 3y	<b>d</b> 3y + 5
26	If the mean of the	scores of five stude	nts is 20, then the s	um of their
	<b>a</b> 4	<b>b</b> 25	<b>©</b> 15	<b>d</b> 100
27	If the largest value	e is 18 and the least	value is 6, then the	range is
	<b>a</b> 12	<b>b</b> 24	<b>©</b> 3	<b>d</b> 78
28	7 Cube =			
	@ 7 x 7	<b>b</b> 3 <sup>7</sup>	C 7 <sup>3</sup>	<b>d</b> 49
29	If 4n = 12, then 6n	= ,,,,,,		
	<b>a</b> 4	<b>b</b> 12	<b>©</b> 18	<b>d</b> 3
30	Which display mal	kes it easier t <mark>o see t</mark>	<mark>he m</mark> edian?	
	a histogram	b box plot	c) dot plot	d bar graph
31	The larger absolut	e value, the	. zero.	
	a closer to	<b>b</b> farther to	equal to	d otherwise
32	From the opposite	e venn diagra <mark>m</mark> , the	expression is	2 2 7
	<b>a</b> 10 (6 + 35)	b 3 (10+7)	© 7(10+3)	d) 10 (2+7)
33	13,510 ÷ 23 = 587	R		
	@ 8	(b) 9	© 7	<b>d</b> 6
34		ile of the values: k + 15.5, then k =		, k + 6, where k is a
35	a 8 Which of the follo	(b) 9 wing is not a solution	c 7 on of k > 2.5 ?	<b>d</b> 10
	<b>a</b> 3	(b) 2.7	(c) 2.49	<b>d</b> 4.9
36	4 and are to	wo relatively prime	numbers.	
	<b>a</b> 12	<b>b</b> 8	<b>©</b> 9	<b>d</b> 28
37	The LCM of two re	latively prime numl	pers is	
	<b>a</b> 0	<b>b</b> 1	c their sum	d their product













38	If 63 ÷ k = 9, then k	=		_
	<b>a</b> 8	<b>b</b> 9	<b>©</b> 7	<b>d</b> 6
39	Mohamed has 47 L.	E, his friend Mina h	as less money than	Mohamed, then
	Mina may has	L.E		
	<b>a</b> 53	<b>b</b> 47	© 100	<b>d</b> 19
40	The number of tern	ns of the expression	: 5 - 2m - 3m + 4 is .	
	<b>a</b> 5	<b>b</b> -2	<b>c</b> -3	<b>d</b> 4
41	A negative number	with an absolute va	lue greater than 13	is
	<b>a</b> 10	<b>b</b> -9	<b>©</b> 17	d -14
42	If the values of data	a set start f <mark>rom 40</mark> to	o 80, then the range	of this <mark>data =</mark>
	<b>a</b> 60	<b>b</b> 40	© 120	<b>d</b> 80
43	In the equation: 1,6	500 ÷ 25 = 64, the di	visor is	
	a 1,600	<b>b</b> 64	© 0	d 25
44	If the median of a +	1, a +2, a + 3 is 10, 1	then a =	
	<b>a</b> 1	b 2	c 3	d 4
45	The smallest natura	al number is		
	<b>0</b> -1	<b>b</b> 0	© 1	<b>d</b> 2
46	If the mean of 8, 6,	x, 5 is 5, then value	of x =	
	<b>a</b> 1	<b>b</b> 2	<b>©</b> 3	<b>d</b> 4
47	Which ofthe follow	ing is equivalent to	the expression :5 x	+3+x?
	a 6x + 2	<b>b</b> 8x + x	© 3(2x + 1)	<b>d</b> 9x
48	The smallest non-no	egative integer is		
	@ 0 MATH	b 1 4 7 6 5	C 2	<b>d</b> -1
49	-5 is located to the	right of the number	on the nu	ımber line.
	a -6	<b>b</b> 4	C -4	<b>d</b> 6
50	All integers are	numbers		
ď	a counting	<b>b</b> natural	© even	<b>d</b> rational
51	The sum of any two	opposite numbers	is	
	<b>a</b> 1	<b>b</b> 2	<b>©</b> 0	<b>d</b> -1

يمكنك الحصول على مراجعات امتحالات و شرح من خلال مسج الكود















	MATHEMATICS TEACHER			
A.				1
52	If the sum of a set	of values is 36, and	the mean of these	value is 4, then
	the number of the	se value is		
	<b>a</b> 6	<b>b</b> 4	<b>c</b> 9	<b>d</b> 36
53	The set of counting	g numbers	the set of natu	ıral numbers.
	a belong to	<b>b</b> subset to	c not belong to	d not subset to
54	The distance betw	een the opposite of	4 and 0 is	
	<b>a</b> -4	<b>b</b> 4	<b>©</b> 0	<b>d</b> 8
55	The number of rat	i <mark>onal numbers lyin</mark> g	between $\frac{3}{5}$ and	<u>4</u> <u>5</u>
	<b>a</b> 0	<b>b</b> 2	<b>©</b> 3	d infinite
56	Twice the differen	ce of a num <mark>ber and</mark>	5 is	
	a 2y + 5	<b>b</b> 2y - 5	© 2(y + 5)	d 2 (y - 5)
<b>57</b>	The inequality rep	resenting neg <mark>ative i</mark>	<mark>num</mark> bers are	•••
	a y > 0	<b>b</b> y < 0	© y ≤ 0	<b>d</b> y ≥ 0
58	The will b	e the best choice as	s a measure •	• • • •
	of central tendence	y in the opposite fig	gure.	2 3 4 5 6 7
	a mean	b median	© range	d) both mean & median
59	2 3 + = !	5 <u>1</u>		
	4	<b>L</b> .	G 2 3	() a 1
	$\bigcirc 2\frac{3}{4}$	<u>b</u> 2 <u>7</u>	© $3\frac{3}{4}$	d $3\frac{1}{2}$
60	"m equals the pro	oduct of n and 3" i	n equation is	******
	a m = 3n	b m = 3 + n	c n = 3m	d n = m + 3
61	is lying be	tween 3.14 and 3.2	TEACHEN	
	a 3.15	<b>b</b> 3.21	<b>3.20</b>	d 3.22
62	A does r	not have vertical axis		
	a dot plot	<b>b</b> bar graph	© histogram	d double bar graph
63	The outlier of the f	ollowing value ( 2, 5	, 54, 3, 8, 6) is	*****
	<b>a</b> 8	<b>b</b> 2	© 54	d none















64	is a sol	ution of $x < -1$		
	<b>a</b> 0	<b>b</b> 1	c - 2	<b>d</b> 3
65	The values (5, 3, 2	, <mark>5, 2</mark> , 7) have	••	
	a no mode	<b>b</b> one modes	c two modes	d three modes
66	The oppsite of  -5	is		
	<b>a</b> 5	<b>b</b> -5	<b>©</b> 0	<b>d</b> otherwise
67	in the algebraic ex	pression : 5x - 4 + 5m	+ 3, the two like ter	rms are
	@ 3 and 5m	<b>b</b> 3x and 5m	© 3 and - 4	d 5x and 3
68	The distance betwe	een -5 and its opposi	te on the number lir	ne is u <mark>nit</mark> (s).
	a zero	<b>b</b> -5	<b>c</b> -10	<b>d</b> 10
69	The will b	oe the best ch <mark>oice as</mark>	<mark>s a m</mark> easure	
	of central tendence	y in the opposi <mark>te fig</mark>	ure.	
	(a) mean	(b) median	crange	d both mean & median
70	have a l			
		<b>b</b> histogram	(c. box plot	d all of the previous
71		a positive nor negati	-	
4	<u>a</u> -1		© 0	<b>d</b> 2
<mark>72</mark>	If the range of a se	t of values is 11 and	the smalle <mark>st value i</mark> s	7, then the
	largest value is	182414111		
	<b>Q</b> 4	<b>b</b> 18	© 77	<b>d</b> 70
73	If the mode of the	se value 5, 7, 2, 9, 5,	7, x + 1, 3 is 7 then x	=
	<b>a</b> 7	<b>b</b> 5	C 6 A CHE	<b>d</b> 4
74	Number of soluti	ons of inequatity x	> 10 is	
	(a) 0	(b) 1°	c 2	(d) infinite
15	<u> </u>	values 3, 9, 4, x, 8 is		<u> </u>
4,	(a) 6	(b) 4	(c) 8	(d) 3
76		e the best choice as	•	
		y in the opposite fig		13 14 15 16 17 18
6	(a) mean	(b) median	(c) range	d both mean & median
چود	ان .امتحانان و شرح من خندل مسج الا محمد الصحيح من خندل مسج الا	يمكنك الحصول علي مراجة		



# Q2: Complete the following:

- 1 In 38: 3 is called ...... and 8 is called .....
- 2 The value of the expression 3 (2 h 3) + 2 at h = 2.5 is .............
- 3 Six squared = ......
- 4 Write inequality that represents all values less than -5 .............
- 5 In the rule: y = 4 x, if x = 1.3, then  $y = \dots$
- 6 Write inequality that represents counting numbers
- 7 If the range of a set is 20 and the smallest value is 9, then the largest values ....
- 8 The number of integers between 5 and 2 is ............
- Opposite numbers on a number line have the ...... absolute values.
- 10 The number just come before 9 is ......
- 11 The GCF of two prime numbers is .....
- 12 5 x ( ...... + ...... ) = ( ...... x 2 ) + ( ..... x 4 )
- 13 All prime numbers are odd except .....is an even number
- 14 The common multiple of all numbers is ..........
- 15 Double x added to 4 equals y as algebraic expression is ........
- 16 The smallest non-negative integer is ............
- 18 The greatest non-positive integer is
- 19 Marwan read at least 5 books ,then Marwan may be read ..... book[s]
- 20 The verbal form of "2 x + 3" is ......
- 21 Twice the sum of a number and five is ...........
- 22 The least common multiple of the two relatively prime number is ............

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- 23 The outliers in the set of values 5, 18, 3, 4, 6, 8 is ......
- 24 The integer that express " move forward 6 steps" is ...........
- 25 ..... and ..... are affected by the presence of outliers.
- 26 If the rule is "Add 9", the equation ........ so, if x is 4 then the output is ........
- 27 The like terms in the expression:  $2 \times + 3 \times + 3$  are ............
- 28 The smallest positive integer number is ........
- 29 6 in form of fraction is ............
- 30 Set of counting numbers ..... to set of natural numbers
- 31 The constant in the expression 3 y + 2 x 5 is ..............
- 32 If 384 ÷ 16 = 24 , then the dividend is .......
- 33 Range cannot be found by using ......
- 34 The number just come before 9 is ......
- 35 Set of rational numbers ..... to set of integer numbers.
- **36** Murad has 120 crayons distribute them among 6 of his friends, how many left? ......
- 37 The number 1.5 in fraction form is ..............
- 38 If the range of a set is 25 and largest value is 52, then smallest value is .....
- 39 The common factor of all number is ......
- 40 The algebraic expression for "a number less 7', is ............
- 41 Write inequality that represents non-negative numbers .....
- 43 ..... data is written in form of words
- 44 Do you like the red color? is a ...... data
- 45 Represent x ≤ 2 (x is an integer) on number line:

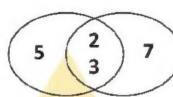






# Q3: Answer the following:

- Karim 48 pencils and 18 crayons. What is the numerical expression of the greatest number of sets that can be made so that all sets include the same number of items?
- The two numbers represented in the venn digram are .......... and .........
  - The common prime factors of the two numbers are ......
  - The GCF of the two numbers is .....
  - The LCM of the two numbers is ......
  - Are the two numbers relatively prime number? (Yes or No)



- 3 Use venn digram to find GCF and LCM of:
  - a) 15 and 10

- b) 24 and 18
- 4 Write two rational numbers lying between each of the following pairs of numbers: a) - 5.1 and 5.2
  - b)  $\frac{3}{5}$  and  $\frac{5}{7}$
- 5 Arrange the following in descending order:

7.5 , 
$$-2\frac{1}{3}$$
 ,  $-\frac{8}{9}$  ,  $|-1|$  ,  $|-3.5|$ 

- 6 Write verbal expression for each of the following algebraic expression:
  - a) 3(m + 4)

b) 8 - 3n

- c)  $\frac{3}{5}$  y + 5
- Write an algebraic expression for each of the following verbal expressions:
  - a. The quotient of a number by 8 is increased by 12 is ..........
  - b. Twice the sum of a number and three is ......
- 8 Use order of operations and exponents to simplify each of the following expressions.
  - a)  $8 + 4^2 5 + 6 (60 \div 20)^2$

b)  $4^2 + 5 (b^2 - 3)$  for b = 2

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- 8 Sandy has 300 L.E, her weekLy pocket money she spends 25 L.E. daily.
  - a. The algebraic expression represent that is ......
  - b. The remained money after 4 days is .....
  - c. The remained money by the end of two weeks is ......
- Check the following expressions where each pair is equivalent or not.

Use two values for x from your own

a) 
$$x + 5$$
 and  $3(x + 2) - 2x - 1$ 

b) 
$$3 + 2 \times$$
 and  $3 + 2 (x + 3)$ 

10 Solve each of the following equations:

a. 
$$16 = n - 3$$

$$b.70 = 50 + t$$

c. 
$$3x + 8 = 29$$

- 11 Write the eqaution that represents the following model, then find the value of x:
  - Equation is .....
  - Value of x = .....



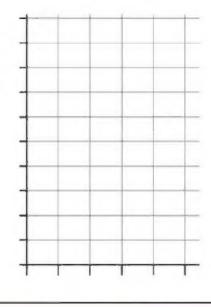
- 12 Name 3 solutions of each inequalty. Then graph the inequality on a number line in the set of integers:
  - a) X ≤ 6

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13 Complete the following tables, then make the graph.

The equation: y=3x+3ATICS TEACHER

X T	- 4	1	. 2	2 1	3	4
у	lan.	dies		9 12	0	0 5
(x,y)						



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45 Draw the box plot for the following data:

5 , 7 , 13 , 11 , 2 , 1 , 2 , 14 , 16 , 10 , 3

Then find: Min - Q1 - Median - Q3 - Max

The following table shows the marks of a group of students in an exam

Marks	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
No. of students	2	1	3	1	1	3	1	2	1	1	2	1	2	1	3	4	2	1	3	4

- a. Use a suitable intervals to draw a frequency table.
- b. Represent the frequency table using histogram.

Murad saves 120 pounds every month, so if the amount he saves in

- (x) month is (y) pounds, then
- a. The equation that represent this situation is ......
- b. The independent variable is ...... the dependent variable is ......
- c. what Murad saves in a year is .....

The following table shows the daily wages of 50 workers of a company.

Sets	120 - 129	130 - 139	140 - 149	150 - 159	160 - 169
Frequency	8	10	16	12	4

Draw the histogram for this distribution.

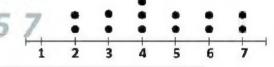
Answer the following by using the opposite dot plot find:

a) The mean

b) The median

c) The range

d) The mode



اللهم اجعل هذا العمل خالصا لوجهك الكريم واكتب له القبول والنفع ياكريم يا وهّاب.

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# چیفیق طباعق صفحات معینق من والف معین



# وثلاراي نطبع العفحات من عفحة كالى عفحة و

